



# CAPP *Rondo*

The **CAPP *Rondo* Benchtop** range features a unique line of instruments, including multiple centrifuges and mixing equipment. The elegant design and the fresh red and white colour scheme brings life and contrast to any laboratory.

**CAPP *Rondo* Benchtop** products have impressive user-friendly and user-safety features throughout. Every instrument is extremely robust and designed for extended runs.

You will be surprised how quiet they are - even when running at maximum speed! Having an impressively small footprint, they are designed to minimise the amount of benchtop space needed.

All products focus on maximum user-safety. The electronic safety brake system prevents the lid from opening under operation, and the robust suction pads at the bottom of the equipment ensure safe and stable operation.






















Motor-driven **CAPP *Rondo*** instruments use brushless DC motors, which are maintenance-free and ideal for extended runs.

**CAPP *Rondo* Benchtop** products are all designed with the best possible user-experience in focus; with large displays and intuitive interfaces which increase comfort whilst working.

All **CAPP *Rondo* Benchtop** equipment is covered by a two-year warranty.



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# CAPP Rondo

MINI INCUBATOR WITH COOLING



The **CAPP Rondo Mini Incubator** is the perfect lab incubator for space-limited and mobile laboratories. Designed with a fine-tuned microprocessor-controlled thermal system and generous internal space, it provides a high level of feature parity with larger laboratory incubators without cutting corners.

The **CAPP Rondo Mini Incubator** has a large inner chamber (22 L) with plenty of space for holding a variety of sample types. From Petri dishes to sample vials and even large bottles (2L max.) the **CAPP Rondo Mini Incubator** is ready for the task. Removable, adjustable shelving make it easy to adjust the space to suit the samples to be stored.

The **CAPP Rondo Mini Incubator** can incubate samples at temperatures of up to 60°C for long periods of time. It can also be used as a chiller, lowering sample temperatures to as low as 15°C below ambient. The high temperature accuracy ( $\pm 0.5^{\circ}\text{C}$  at 37°C) and thermal uniformity ( $\pm 1.5^{\circ}\text{C}$  at 37°C) of the **CAPP Rondo Mini Incubator** make it a reliable device for most labs.

With its small portable size (410 x 340 x 480 mm) and feather-weight (7.4kg), the **CAPP Rondo Mini Incubator** is easy for one person to move from one workbench to another without risking injury or damage to the unit. This makes it easy to bring the incubator to the samples, minimizing the risk of sample contamination.

## Specifications:

Temperature Range	15°C below ambient, up to 60°C
Temperature Accuracy	0.5°C (at 37°C)
Temperature Uniformity	+/- 1.5°C (at 37°C)
Temperature Increments	+/- 1°C
Exterior Dimensions	410 x 340 x 480mm
Interior Dimensions	260 x 235 x 360mm
Weight	7.4kg
Electrical	100-240V, 50-60Hz

## Features:

- Intuitive control panel with a large easy-to-read LED display
- Microprocessor controlled thermal adjustment with fine, granular  $\pm 1^{\circ}\text{C}$  adjustments
  - Small footprint (13 x 14.5") ideal for space-restricted laboratories
  - Internal chamber illuminated with a bright light fixture for easy sample retrieval
  - Internal power outlet for powering small instruments (e.g. vortex mixers, rollers, shakers etc.)

## Ordering Information

Cat No.	Description
CR-MI1	Digital Mini Incubator with heating and cooling (15°C below ambient, up to 60°C)

# CAPP Rondo

## MINI VORTEX MIXER



**CAPP Rondo Mini Vortex Mixer** offers the ideal solution for thorough mixing and quick vortexing, with high performance in speed, reliability and safety.

### Speed:

- With 4.5mm orbital motion and speeds of up to 4.500 RPM, it instantly vortexes tubes and vials up to 30mm diameter
- Highly touch-sensitive switch ensures real-time mixing
  - Variable speed can be adjusted simply by turning the speed control button
- Microprocessor-controlled, delivering the maximum speed even under varying load conditions

### Reliability:

- Suspension design for longer switch life
- Two-year manufacturer's warranty for parts and labour
- Low-profile with small footprint - ideal for use on laboratory benches
- Well-balanced design, supplied with three anti-sliding feet to help the instrument to remain stable
- In-built counterbalance system creates maximum vortexing action, while minimising noise and excessive vibration

### Safety:

- Brushless DC motor for safety, quick acceleration and low maintenance
  - Ideal for cold rooms and incubators
  - Maintains set speed between 4-40°C
- Chemically-resistant PC ABS molded exterior
- Robust design with aluminium die-cast base

### Specifications:

Technical Data	Motion	Orbital	
	Speed Range (RPM)	Up to 4.500	
	Orbital Diameter	4.5mm	
	Operating Mode	Touch	
	Max tube diameter	30mm	
	Power Supply	Universal (90 to 230V, 50/60 Hz.)	
	Motor	Brushless DC motor	
	Max. Load Capacity	500 g	
	Permissible ambient temperature	5 - 40 °C	
	Permissible relative moisture	80%	
General Data	Material	Body	PC ABS
		Platform	Die Cast
	Dimension (W x D x H)	100 x 100 x 67mm	
	Net Weight (kg / lbs)	0.55 / 1.21	
	Power Consumption	15 W	
Protection Class (DIN EN 60529)	IP 43		

## Ordering Information

Cat. No.	Description
CRV-45X	CAPPRondo Vortex Mixer 4.500 RPM w/ adjust. speed

# CAPP Rondo

## VORTEX MIXER

The **CAPP Rondo Vortex Mixer** is an essential piece of equipment for everyday mixing operations in any laboratory.

Thanks to the brushless DC motor, **CAPP Rondo Vortex Mixer** is maintenance-free and ideal for extended runs. Its adjustable speed operation ranges from 300 to 3.000 RPM, providing thorough mixing and quick vortexing, and enabling high performance in terms of speed, reliability and safety.

The timer setting and clear digital display enable comfortable work and full control of your vortexing process.

**CAPP Rondo Vortex Mixer** is chemically resistant and has a robust design, ensuring long-term use. The in-built counterbalance prevents it from 'walking on the bench' and the microprocessor control provides ultimate efficiency.

**CAPP Rondo Vortex Mixer** can be activated either by touch or via the continuous vortexing mode. It vortexes with a 4mm orbital diameter and has a maximum loading capacity of 1kg.

The unique programmable pulse mode of **CAPP Rondo Vortex Mixer** increases its mixing efficiency.

**CAPP Rondo Vortex Mixer** comes with a conical tube attachment. A round disk attachment with base is also available as an accessory.



### Specifications:

Speed Setting	300 - 3.000 RPM
Orbital Diameter	4mm
Motor Type	Brushless DC
Digital Display	Yes
Dimensions (W x D x H)	200 x 225 x 107mm
Timer Setting	0-999 mins and continuous
Pulse Mode	Yes, Programmable
Max. Load Capacity	500g
Weight	4kg

## Ordering Information

Cat. No.	Description
CRV-30XC	CAPPRondo Vortex Mixer 3.000 RPM w/ adjust. speed, timer and continuous mode
CRV-30XC-RA	Round disc attachment with base for CRV-30XC CAPPRondo Vortex Mixer



# CAPP Rondo

## MICROCENTRIFUGE

**CAPP Rondo Microcentrifuge** has a lot more to offer compared to the basic microcentrifuges available on the market.

It is available in two options. Firstly, is the CR-68, which is the basic version, with a fixed speed of 6.000 RPM/2.000 x g. Secondly is the CR-68X, which is the advanced version, with programmable speeds of up to 6.000 RPM/2.000g and a timer function, all operated by two buttons and a clear digital display.

### Features:

- Additional PCR strip rotor (2 x 8 x 0.2mL) and reduction adaptors for 0.2/0.4mL microtubes supplied with the product
- Electronic safety brake provides an immediate stop upon opening the lid
  - 8 slot closed rotor for quiet and powerful operation
- Quick operation by simply closing and opening the lid
- Digital display of speed and timer function (CR-68X)
  - Imbalance cut-off safety feature (CR-68X)
  - Digital calibration function (CR-68X)

### CR-68 Specifications:

Motor Type	DC motor
Rotor Capacity	8 x 1.5/2.0mL & 2-place PCR strip rotor
Speed	2000-6000 RPM 2000 x g (MAX RCF)
Time	No
Dimensions (L x W x H)	162 x 157 x 116mm
Weight	1.1kg

### CR-68X Specifications:

Motor Type	Brushless DC motor
Rotor Capacity	8 x 1.5/2.0mL & 2-place PCR strip rotor
Speed	2000-6000 RPM 2000 x g (MAX RCF)
Speed Accuracy	± 25 RPM
Time	0 to 25 mins & infinite
Dimensions (W x D x H)	162 x 157 x 116mm
Weight	1.1kg



## Ordering Information

Cat. No.	Description
CR-68	CAPPRondo Microcentrifuge 6.000 RPM/2.000g
CR-68X	CAPPRondo Microcentrifuge w/ adjustable speed and timer function, max. 6.000 RPM/2.000g

# CAPP Rondo

## HIGH SPEED MINI-CENTRIFUGE

**CAPP Rondo Mini-centrifuge** is designed to be an easy-to-use, high performance mini-centrifuge in a modern and attractive form, equipped with maintenance-free drive. It accelerates up to twelve 2.0mL mini-centrifuge tubes to a maximum speed of 15.000 RPM (RCF: 15.595 x g), enabling the user to process samples rapidly. Routine runs, such as spin column preparations, can be carried out with minimal time and effort. This compact centrifuge is also cold room and fume hood compatible.

### Features:

- Lid lock safety and imbalance detection features ensure utmost safety during operation
- Unique airflow design: ensures less heat generation and lower noise levels
- Adaptors are provided for 0.1/0.2mL and 0.4/0.5mL tubes
- Quick and convenient setting because of intuitive simple interface
- Multiple parameters are displayed at a time on the large back-lit LCD display
- Memory for up to 99 programs - operation records are saved in Excel sheet
- Aluminum rotor, with capacity of 12 tubes of 2mL, and screw-on metal lid
- Brushless DC motor is maintenance-free and fit for extended runs
- Last run memory feature



### Specifications:

Speed setting	500 to 15000 RPM / Min-Sec timer 30 secs to 999 mins & infinity mode
Maximum speed RPM / RCF (g)	15000 RPM / 15.596 x g
Display	Large Backlit LCD display
Rotor Capacity	12 slots aluminium rotor with metal safety lid for 2.0mL microtubes (pre-installed) and 2x8 0.1/0.2mL PCR strip rotor
Motor Type	Brushless DC
Noise Level	< 60 db
Imbalance Detection	Yes
Remote Operation	Yes
Lid Lock Safety	Yes, lid opens automatically on run completion
Dimensions (W x D x H)	230 x 262 x 131mm
Accessories	Reduction Adaptors for 0.1/0.2mL (set of 12) and 0.4/0.5mL (set of 12) microtubes

## Ordering Information

Cat. No.	Description
CR-1512	CAPPRondo Mini-centrifuge 15.000 RPM/15.595g, for 12x 1.5-2.0mL tubes
CR-15-PCR	PCR strip rotor for CAPPRondo CR-1512 w/ reduction adaptors, 1 pc.



# CAPP Rondo

## UNIVERSAL CENTRIFUGE

**CAPP Rondo Universal Centrifuge** has been developed after much research of user feedback and expectations. Occupying a minimal amount of bench space, it offers powerful and efficient centrifugation whilst maintaining a high performance over a long time of use.

The wide range of rotor options guarantee the most versatile scope of application. The extremely user-friendly interface enables you to program the device according to your specific needs. The brushless DC motor technology sustains durability and high performance over many years of use.

**CAPP Rondo Universal Centrifuge** operates with adjustable speeds ranging from 500 to 4.500 RPM. It has multiple rotor options - with both swing-out and fixed-angle rotors. It is equipped with a large digital display which visualises multiple parameters in the clearest, most comfortable way.

Nine acceleration and nine deceleration modes enable you to start and stop the device without disturbing any fragile samples.

Additionally, **CAPP Rondo Universal Centrifuge** has an adjustable timer which can be set from 1 to 999 minutes; or the infinite centrifugation mode which is without any time limitation. User safety is increased thanks to the electronic imbalance detection feature, which is activated by any uneven loading of samples.

This centrifuge features a Lid Lock Safety Break, ensuring that the lid remains closed until the rotor has fully stopped its operation. The Emergency Lid Release enables you to open the device once any electricity supply has been removed.

To ensure the ultimate centrifugation performance, **CAPP Rondo Universal Centrifuge** offers a short spin feature for ultra-short centrifugation and pelleting. The stainless-steel chamber rotor is fully corrosion-free and extremely easy to clean.

**CAPP Rondo Universal Centrifuge** has an intelligently designed airflow system, which prevents any increase in sample temperature. It has a low-height design, which enables easy loading and unloading of samples.



### Specifications:

Speed Range	500 - 4.500 RPM / (g) varies per rotor type
Motor Type	Brushless DC motor (BLDC)
Remote Operation	Yes, via USB
Display	Yes, large LED Display
Timer Setting	from 1 to 999 mins or infinite mode
Programmable	Yes, up to 99 programs
Imbalance Detection	Yes
Rotors (optional)	Multiple rotor options (swing-out and fixed-angle rotors)
Dimensions (W x D x H)	595 x 436 x 311mm
Weight	23kg (without rotor)

**CR-43-100**

4 x 100mL swing rotor  
with Bio Safety Cap, RCF  
3164 x g

**CR-43-PL**

2 x microplates swing  
rotor, RCF 2355 x g

**CR-43-15**

16 x 15mL swing rotor  
with SS tubes, RCF  
3485 x g

**CR-43-100F**

4 x 100mL fixed-angle  
rotor, RCF 2559 x g

**CR-43-15F-16**

16 x 15mL fixed-angle  
rotor, RCF 3144 x g

**CR-43-06**

32 x 6mL swing rotor,  
RCF 3164 x g

**CR-43-15F-24**

24 x 15mL fixed-angle  
rotor, RCF 2852 x g



## Ordering Information

Cat. No.	Description
CRC-432X	CAPPProndo Universal Centrifuge (up to 4 x 100mL)
<b>Rotor options:</b>	
CR-43-100	4 x 100mL swing rotor with Bio Safety Cap, RCF 3164 x g
CR-43-15	16 x 15mL swing rotor with stainless steel tubes, RCF 3485 x g
CR-43-PL	2 x Microplates swing rotor, RCF 2355 x g
CR-43-100F	4 x 100mL fixed-angle rotor, RCF 2559 x g
CR-43-15F-24	24 x 15mL fixed-angle rotor, RCF 2852 x g
CR-43-15F-16	16 x 15mL fixed-angle rotor, RCF 3144 x g
CR-43-06	32 x 6mL swing rotor, RCF 3164 g (includes 32 x 6mL SS tubes dia.13mm, length 100 mm)

*Important note: Each rotor has a range of optional tube adaptors.*

*Go to: [www.CAPP.dk/product/CAPPProndo-universal-centrifuge](http://www.CAPP.dk/product/CAPPProndo-universal-centrifuge) to see the full overview of all adaptors available.*

# CAPP Rondo

## MICROPLATE CENTRIFUGE

The **CAPP Rondo CR-22P Microplate Centrifuge** is a compact centrifuge for spinning down samples in microwell plates. This modern microplate centrifuge is compatible with both 96 well plates and 384 well plates. With its loading capacity of 2 plates per spin cycle, the **CAPP Rondo CR-22P Microplate Centrifuge** makes quick work of centrifuging samples for PCR or Cytokine assays among others.

Fitted with a modern control panel that includes a large digital display and soft-touch buttons, this microprocessor-controlled PCR plate spinner is intuitive and quick to set up. A modern microprocessor powers the microplate centrifuge, meticulously controlling the brushless motor for industry leading accuracy and performance.

Manufactured with advanced safety features, the **CAPP Rondo CR-22P Microplate Centrifuge** reduces the risk of operator injury or sample loss. A lid-lock safety mechanism prevents users from accessing the rotor while its spinning. An inbuilt imbalance detection feature protects the microplate centrifuge from running with an uneven load.

### Features:

- Maintenance-free brushless DC motor
- Modern microprocessor controlled centrifuge with last-run memory feature
- Lid-lock safety mechanism prevents access to the rotor while it is spinning
- Intuitive and precise volume/speed adjustment via a digital interface with soft-touch buttons
- Small footprint and low loading height for maximum space savings



Specifications	Product Details
Dimensions (W x D x H)	330 x 265 x 161mm
Weight	4kg (w/o rotor)
Motor type	Brushless DC motor
Speed setting	462 x G (max RCF) / 2500 RPM
Speed accuracy	±100 RPM
Humidity	80%
Acceleration time	30 + 5 seconds
Deceleration time	20 + 5 seconds
Electrical specifications	24V, 1.5A
Power consumption	24W
Maximum capacity	2 microplates (96 & 384 well)

## Ordering Information

Cat No.	Description
CR-22P	CAPPRondo Microplate Centrifuge 2.500rpm/ 560g for 2x microplates



# CAPP Rondo

CLINICAL CENTRIFUGE

**CAPP Rondo Clinical Centrifuge** is a compact and reliable low-speed centrifuge, ideal for blood centrifuge applications involving volumes below 15mL. It stands out in its category for having great features that ensure an easy-to-use, reliable, safe performance.



#### Ease of use:

- Rotor capacity of up to 8 x 15mL tubes on a fixed-angle rotor
  - Adaptors included allow usage with most standard collection tubes: 5mL, 7mL, 10mL and 1.5mL / 2.0mL
    - Large digital display
  - Timer setting of 0.5 to 30 minutes
- Only one click to change from RPM to RCF

#### Reliable performance:

- Smart airflow design reduces noise
- Precise RPM setting with increments from 100 RPM and setting from 500-6.500 RPM
- Built with a long-life DC motor and a microprocessor

#### Safety:

- Automatic imbalance detection
- Lid lock safety: lid opens automatically after the operation is completed

#### Specifications:

Maximum Speed RPM / RCF (g)	6.500 RPM / 3.873 x g
Speed Setting	500 to 6.500 RPM (increments of 100 RPM)
Timer Setting	0.5 to 30 minutes or infinite mode
Imbalance Detection	Yes
Dimensions (W x D x H)	260 x 244 x 205mm
Noise Level	< 60 dB
Weight	4kg
Rotors And Adaptors Included	8 x 10/15mL, adaptors for 5mL, 7mL, 1.5mL and 2mL tubes

## Ordering Information

Cat. No.	Description
CRC-658	CAPPRondo Clinical Centrifuge 6.500 RPM / 3.873 x g for 8 x 15mL

# CAPP Rondo

## 44-PLACE REFRIGERATED CENTRIFUGE

The **CAPP Rondo 44-place Refrigerated Centrifuge** is a high-performance centrifuge for spinning samples in a controlled low-temperature environment of up to  $-20^{\circ}\text{C}$  ( $\pm 4^{\circ}\text{C}$ ). Using this centrifuge, molecular biology samples such as antibodies, DNA, RNA, and PCR, among others, can be processed with ease.

The microprocessor-controlled **CAPP Rondo 44-place Refrigerated Centrifuge** features a large, four-row backlit LCD display that makes it easy to adjust key operating parameters. The control panel of this excellent centrifuge has an intuitive layout, with buttons arranged neatly around the display. Settings such as temperature, speed and time can be adjusted quickly with the push of a button.



With four interchangeable rotor options the **CAPP Rondo 44-place Refrigerated Centrifuge** can handle a broad range of centrifugation tasks. The 44-place (22388 x g) and 24-place (21420 x g) rotor options accommodate 1.5mL and 2mL microcentrifuge tubes. Larger 5mL microcentrifuge tubes can be spun using the 8-place (18462 x g) rotor. Additionally, it can accommodate PCR strips in a special PCR strip rotor (15397 x g).

The **CAPP Rondo 44-place Refrigerated Centrifuge** is powered by a maintenance-free brushless DC motor, delivering spin speeds of up to 15000 RPM. At high speeds it is stabilised by its sturdy 43-kilogram frame and rubber feet.

Other safety features include an imbalance detection feature and a lid-lock mechanism that prevents access to the centrifuge while the rotor is spinning.

### Features and benefits include:

- Brushless, maintenance-free DC motor runs at high speeds of up to 15000 RPM
- Modern design in a clean, classic white colour
- Refrigerated benchtop centrifuge which keeps a consistent temperature, even at maximum spin speeds
- Flexible run timer (30 seconds to 999 minutes+)
- Refrigerated centrifuge with 4 swappable rotor options
- Imbalance detection feature and lid lock safety mechanism

#### CR-15-44

Fixed angle rotor for CR-1544R for  
44x 1.5mL/ 2.0mL microtubes



#### CR-15-24

Fixed angle rotor for CR-1544R for  
24x 1.5mL/ 2.0mL microtubes



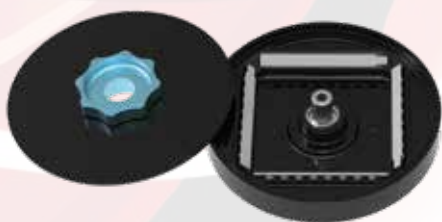
#### CR-15-8

Fixed angle rotor for CR-1544R for  
8x 5.0mL microtubes



#### CR-15-4

Fixed angle rotor for CR-1544R for  
four strips of 8x 0.2mL/ 0.5mL PCR tubes



#### Specifications:

Refrigeration Temp.	Down to -20°C
Speed Range	500-15000 RPM
Time Settings	30 sec. - 999 min. or infinite
Display	Large backlit LCD
Programmable Features	Up to 99 user-defined programmes of four lines each
Lid-lock Safety Feature	Yes
Imbalance Detection	Yes
Dimensions (W x D x H)	452 x 314 x 278mm
Weight	43kg (incl rotor)

## Ordering Information

Cat No.	Description
CR-1544R	CAPPRondo Refrigerated Centrifuge 15000 RPM, 220V
CR-15-44	Fixed angle rotor for CR-1544R for 44x 1.5mL/ 2.0mL microtubes
CR-15-24	Fixed angle rotor for CR-1544R for 24x 1.5mL/ 2.0mL microtubes
CR-15-8	Fixed angle rotor for CR-1544R for 8x 5.0mL microtubes
CR-15-4	Fixed angle rotor for CR-1544R for 4 strips of 8x 0.2mL/ 0.5mL PCR tubes



# CAPP Rondo

## PLATFORM SHAKER

**CAPP Rondo Platform Shaker** offers a shaking mass capacity of 7.5kg. Its orbital motion, along with the motor technology ensures thorough mixing and a long-life, maintenance-free operation, making it ideal for extended runs.

The speed settings range from 50 to 300 RPM and the time can be set up from 1 to 99 hours and 59 minutes.

**CAPP Rondo Platform Shaker** has multiple programmable modes, such as motion direction, speed, time, dwell time, sequence and loop operation. The user can program up to six individual protocols, each one with additional nine sub-protocols.

Thanks to the multiple attachments, **CAPP Rondo Platform Shaker** is universally compatible with almost all commonly used vessels.

In case of a power failure, the option of *Auto Power On* will ensure the operation runs for the remaining time after resumption.

### Specifications:

Shaking Movement	Orbital (Ø20mm) / Linear
Max. Loading Capacity	7.5kg
Speed Range	50-300 RPM
Motor Type	Brushless DC motor
Time Settings	0 to 99 hours and 59 minutes
Dimensions (W x D x H)	408 x 350 x 99mm
Platform Size	330 x 330mm
Protection Class	IP 21
Programmable Features	Up to 6 individual protocols, each with additional 9 sub-programmes
Programmable Looping	Yes



CRP-U



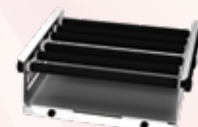
CRP-D



CRP-C9-250



CRP-C9-500



CRP-F



CRP-CS9-250



CRP-CS9-500



CRP-CS-250

## Ordering Information

Cat. No.	Description
CRP-3X	CAPPRondo Platform Shaker ø 20mm, with linear and orbital motion, 7.5kg capacity
CRP-U	Universal Platform with Adjustable Bars (Flask capacity 9 x 250mL, 6 x 500mL)
CRP-D	Disk Attachment Base Plate with Slip-resistant Tray
CRP-C9-250	Base Plate with 9 Plastic Clamps: 9 x 250mL
CRP-C9-500	Base Plate with 9 Plastic Clamps: 9 x 500mL
CRP-F	Funnel Attachment
CRP-CS9-250	Base Plate with 9 Stainless Steel Clamps: 9 x 250mL
CRP-CS9-500	Base Plate with 9 Stainless Steel Clamps: 9 x 500mL
CRP-CS-100	Stainless Steel Clamp for 100mL Flask
CRP-CS-150	Stainless Steel Clamp for 150mL Flask
CRP-CS-250	Stainless Steel Clamp for 250mL Flask
CRP-CS-500	Stainless Steel Clamp for 500mL Flask
CRP-CS-1000	Stainless Steel Clamp for 1000mL Flask



# CAPP Rondo

## SINGLE PLATE SHAKER

The **CAPP Rondo Plate Shaker** is an ideal choice of microplate shaker for any test environment. With a tiny footprint, as small as the 96-plate size, the shaker is microprocessor-controlled for higher accuracy. The in-built counterbalance ensures a stable, quiet and long-life operation.

### Highlights:

- Comes with interchangeable clamps that provide universal fitting for different microplates
- Provided with an accessory tube platform to accommodate 20 microtubes of 1.5/2mL
- With a wide speed setting range from 300 to 1.800 RPM and orbital motion of 2mm (1mm radius), the **CAPP Rondo Plate Shaker** can perform numerous applications including PCR, ELISA, enzyme immunoassays, protein synthesis and pharmaceutical profiling
- Vortexing motion thoroughly mixes each well
- Can be used inside cold rooms or fume hoods (up to 40°C)

### Specifications:

Speed Setting	300 to 1.800 RPM
Digital Display	Yes
Shaking radius	1mm
Motor Type	Brushless DC
Load Capacity	2kg
In-built Counterbalance	Yes
Power Supply	Universal (100-240V, 50/60 Hz.)
Dimensions (W x D x H)	85 x 127 x 86mm
Weight	1.36kg
Accessories	Replaceable clamps to use different types of standard microplates

## Ordering Information

Cat. No.	Description
CRP-18X	CAPPRondo plate shaker, 300 to 1.800 RPM



# CAPP Rondo

## 4-PLACE PLATE SHAKER

**CAPP Rondo 4-Place Plate Shaker** is the ideal choice for thorough, simultaneous mixing of up to four individual microplates of different types.

The 3mm orbital motion movement guarantees the ultimate mixing performance, and the brushless DC motor ensures long and maintenance-free operation, making **CAPP Rondo 4-Place Plate Shaker** the ideal device for extended runs.

### Features:

- Speed ranges from 200 to 1.200 RPM
- Compatible with all commonly used skirted microplates
- Pulse mode for continuous mixing in clockwise and counterclockwise directions, from 30 to 90 seconds
- Rubber O-rings ensure an ultimate grip for all four plates
- Digital display gives the user an overview of the speed and time settings
- Small and compact design requires minimum benchtop space
- Effortless loading and unloading and easy access to all four plates
- Last run memory feature
- Extremely easy to clean and maintain



### Specifications:

Motor Type	BLDC motor
Orbital Motion	3mm
Number of Plates	Up to 4
Variable Speed	200 RPM to 1.200 RPM
Run Time	1 to 999 mins and infinity mode
Pulse Mode	Yes, Programmable (30 to 90 seconds)
Weight	5.4kg
Maximum Volume	4 x 384 x 60µL
In-built Counterbalance	Yes
Dimensions (W x D x H)	343 x 88 x 195mm
Digital Display	Yes
Input Voltage	24V
Attachments	Acc. All standard Skirted Microplates

## Ordering Information

Cat No.	Description
CRP-412X	CAPPRondo 4-Place Plate Shaker 1.200 RPM



# CAPP Rondo

## 4-PLATE INCUBATING SHAKER

The **CAPP Rondo Incubation Shaker** provides thorough mixing and even heating for 96/384 well microplates. This innovative microprocessor-controlled incubating shaker can be used in a wide spectrum of life science applications including immunochemistry protocols, biochemical analyses, cell culture protocols, microarrays, and more.

A bright digital display that is easy on the eyes provides quick access to key metrics such as temperature (°C or °F), speed (RPM), and time (hh:mm). Intuitive touch buttons make it easy to adjust incubation temperatures, shaking speeds, and run times. The **CAPP Rondo Incubation Shaker** also features a programmable pulse button that provides vigorous shaking in short bursts of 30-99 seconds.



**CAPP Rondo Incubation Shaker** holds up to 4 micro well plates. A rubber O-ring stabilizes the microplates during shaking and an internal counterbalance mechanism ensures even shaking across all plates. Incubation temperatures stay uniform across all four plates with a tiny temperature variation of only  $\pm 0.3^{\circ}\text{C}$ .

With a footprint of only 361 x 267mm and a weight of 9.5kg, the **CAPP Rondo Incubation Shaker** fits in small spaces on any workbench. A maintenance-free brushless DC motor helps it to run silently for prolonged periods with minimum vibrations. The powerful DC motor provides constant speeds ranging from 200-1200 RPM.

### Features:

- High performance maintenance-free DC motor with extended run times (1-999 minutes and beyond)
- Adjustable timer setting for long run times (up to 99 hours, 59 minutes)
- Large capacity stage accommodating 4 x 96/384 micro well plates
- Programmable pulse mode for vigorous mixing of samples in micro well plates
- 3mm orbital motion for thorough shaking and mixing of microplates
- Incubation shaker with a simple design for effortless cleaning and maintenance

### Specifications:

Motor Type	Brushless DC
Orbital Motion	3mm
Number of Plates	Up to 4
Heat Temp. Range	Ambient 3°C to 70°C
Temp. Uniformity	$\pm 0.3^{\circ}\text{C}$
Variable Speed	200-1.200 RPM
Run Time	1-999 mins or infinite
Pulse Mode	Programmable (30-99 sec.)
Max. Volume	4 x 96/384 micro well plates
Inbuilt Counterbalance	Yes
Dimensions (W x D x H)	361 x 267 x 155mm
Weight	9.5kg

## Ordering Information

Cat. No.	Description
CRPI-412X	CAPPRondo Incubating Shaker, 4-Place

# CAPP Rondo

MAGNETIC STIRRER

The **CAPP Rondo Magnetic Stirrer** is a compact device that works at a maximum speed of 1.500 RPM. It is manufactured with a robust stainless steel top surface which resists moderate contamination of harsh chemicals. The adjustable speed and timer function can be set and monitored on a modern real-time digital display.

### Not just a simple Stirrer:

- Adjustable speed and timer
- Last run memory feature
- Pulse mode works for 30 seconds in each direction, for improved mixing
- Water spill resistant – IP 65 compliant

### Innovative design:

- Slim profile – only 16.5mm thick
- Touch control pad and digital display
- Flat surface for ease of cleaning
- Maintenance free

*Important note:* to maximise the performance of your **CAPP Rondo Magnetic Stirrer**, **CAPP** recommends that you use our original Teflon coated, 25mm high strength stirring bar. One unit is supplied with each instrument. Contact your local distributor to order more units.



### Specifications:

Maximum Speed	1.500 RPM
Speed Setting	15 to 1.500 RPM (increments of 50 RPM)
Load Capacity	800mL
Recommended Stir Bar Length	25mm
Dimensions (W x D x H)	124 x 191 x 16.5mm
Weight	600g
Pulse Function	Yes
Timer Function	1 to 99 minutes and infinite mode

## Ordering Information

Cat. No.	Description
CRS-15X	CAPPRondo Magnetic Stirrer 1.500 RPM w/ 1 stirring bar



# CAPP Rondo

## ANALOGUE MAGNETIC STIRRER

The **CAPP Rondo Magnetic Stirrer** is a compact liquid mixing device designed for excellent stirring of liquids of various viscosities. The space efficient design allows for a broad scope of usage environments ranging from normal workbenches to laminar-flow cabinets, hoods, and cold rooms. With its lightweight frame, the **CAPP Rondo Magnetic Stirrer** is portable and can be moved from one workstation to another with ease.

The **CAPP Rondo Magnetic Stirrer** has a spacious set-up plate that can accommodate a wide range of mixing containers ranging from small flasks to large beakers. A powerful DC motor provides both low-speed and high-speed mixing (400 - 2200 rpm) with an easy-to-use control knob allowing users to quickly adjust motor speed. Complementing the motor is the **CAPP Rondo Magnetic Stirrer's** long stir bar (25mm) that makes quick work of mixing liquid volumes of up to 10 litres.

With an IP 42 compliant product construction, the **CAPP Rondo Magnetic Stirrer** is protected from moisture ingress ( $\leq 15^\circ$ ), and solid ingress ( $\geq 1\text{mm}$ ) for longer lasting performance. The easy-cleaning, closed design provides excellent protection against spills while also minimizing routine cleaning and maintenance. Rubberized feet and an optimized motor stabilize the **CAPP Rondo Magnetic Stirrer** to minimize vibrations during mixing and prevent accidental spillage.

### Features:

- Compact magnetic stirrer with a large volume capacity (up to 10L)
- Portable mixer that can be easily moved around the laboratory
- Intuitive single-knob operation provides plug-and-play setup for maximum efficiency and minimum set up
- Space efficient dimensions tailored for confined lab spaces (hoods, cabinets, cold-rooms)



### Specifications:

Mixing Capacity	10L
Motor Type	DC Motor
Operating speed	Variable (400 – 2200 RPM)
Set-up plate dimensions	140 x 140mm
Device weight	1.5kg
Dimensions (W x D x H)	230 x 150 x 78mm
Stir bar length	25mm
IP class	IP 42

## Ordering Information

Cat. No.	Description
CRS-21	CAPPRondo Analogue Magnetic Stirrer



# CAPP Rondo

## MAGNETIC HOTPLATE STIRRER

The **CAPP Rondo Magnetic Hotplate Stirrer** has a load capacity of 10 litres and comes with a ceramic-coated stainless steel plate and a powerful motor, enabling it to deliver constant speed even under varying load conditions.

**CAPP Rondo Magnetic Hotplate Stirrer** offers variable speed setting, ranging from 200 to 2,200 RPM, increasing in steps of 10 RPM. It heats the samples from the ambient temperature up to 320°C and is microprocessor-controlled for stable and reliable operation. Once the plate temperature has reached 50°C, an LED indication is illuminated.

**CAPP Rondo Magnetic Hotplate Stirrer** is programmable in terms of both speed and time. The time setting ranges from 1 to 999 minutes, and a continuous stirring mode without any time limitation can be set up. Additionally, **CAPP Rondo Magnetic Hotplate Stirrer** has a last run memory function and a *Pulse Mode* for effective mixing.

To increase user comfort, **CAPP Rondo Magnetic Hotplate Stirrer** is equipped with a large display, showing all critical parameters in a clear, visible way.

It comes with a P1000 temperature probe along with a stand. Having connected the P1000 to the stirrer, the probe temperature will appear on the display. When removing the probe, the display will switch back to its default setting, showing the plate temperature.

**CAPP Rondo Magnetic Hotplate Stirrer** is extremely compact, saving valuable space on your bench.



### Specifications:

Max. Load Capacity	10L
Speed Setting	200 - 2.200 RPM, in steps of 10 RPM
Temp. Range	from Ambient to 320°C
Time Setting	1-999 mins and continuous
Digital Display	Yes. Shows Speed/Time/Actual/Set Temp. alternately
Safe Temp. Circuit	Yes
Plate Diameter	140mm
Weight	1.4kg
Dimensions (W x D x H)	156 x 248 x 104mm
Protection Class	IP 21
Accessories included	CRS-21H-P (temperature probe) and CRS-21H-S (stand)
Pulse Mode	Run-Pause-Run. Interval of 30 seconds

## Ordering Information

Cat. No.	Description
CRS-21H	CAPPRondo Magnetic Hotplate Stirrer 2200 RPM, 320°C ceramic, 10L capacity, 220V

# CAPP Rondo

## HOTPLATE STIRRER

The latest refresh to the **CAPP Rondo Hotplate Stirrer** is packed with a ton of useful improvements designed to make scientists more productive and efficient in their liquid handling protocols. **CAPP Rondo Hotplate Stirrer** comes with a chemically inert composite fibre body and a powerful servo motor that will tackle the most demanding liquid viscosities with ease.

Decked with an intuitive microprocessor-driven control panel consisting of a large digital display, touch buttons and rotational dial, the **CAPP Rondo Hotplate Stirrer** is easy to set up and run. Six intelligent heating modes make it easy to regulate the thermal conditions of each liquid mixing run while an over-temperature protection feature protects the plate from overheating. With power and intelligence packed into one beautiful enclosure the **CAPP Rondo Hotplate Stirrer** is the perfect mixing device for most life science reagents and samples.

### Features:

- Composite body with high resistance to several chemicals and compounds
- Heating plate with long-lasting, nano-crystalline glass ceramic coating
- Ultra-wide thermal range (Ambient - 550°C) and overheating protection
- Best-in-class servo motor with variable speed mixing (200 - 2200 rpm)

### Specifications:

Speed Range	200-2.200 RPM in steps of 10 RPM
Thermal Range	5°C - 550°C (±1°C)
Safety Temp. Limit	575°C
Load Capacity	20L
Heating plate material	Nano-crystalline glass ceramic
Heating plate dimensions	180 x 180mm
Over-temperature protection	Yes
Pulse Mode	Programmable, from 30 to 99 secs.
Dimensions (W x D x H)	313 x 205 x 110mm
Weight	4.9kg
Stir bar	25mm
Protection Class	IP 21
Permissible Relative Humidity	Up to 80%
Accessories included	CRS-21H-P (temperature probe) and CRS-21H-S (stand)



## Ordering Information

Cat. No.	Description
CRS-22H	CAPPRondo Hotplate Stirrer 2.200 RPM, 550°C ceramic, 20L capacity, 220V

# CAPP Rondo

3 D SHAKER

**CAPP Rondo 3D Shaker** operates at a variable speed range from 10 to 120 RPM. The brushless DC motor ensures stable, quiet and maintenance-free operation, which is perfectly suited for extended runs. The three-dimensional rocking and tumbling motion provide thorough homogenous mixing.

The user can save up to nine individual protocols, or use the pulse mode with *Run-Pause-Run* operation at a programmable time interval ranging from 30 to 99 seconds.

**CAPP Rondo 3D Shaker** can be programmed to run from 1 up to 999 minutes, or continuously in the *Infinite Mode*. To assure total stability on the bench it is equipped with non-slip rubber feet and comes with a spiked rubber mat. Optionally, a sticky pad mat can be ordered.

**CAPP Rondo 3D Shaker** is easy to clean and complies with Protection Class IP 21.



## Specifications:

Load Capacity	5kg
Speed Range	10-120 RPM
Motor Type	BLDC (Brushless DC motor)
Movement	Tumbling 7°
Run Time	1-999 minutes or infinite
Programmable Mode	Up to 9 user-defined protocols
Pulse Mode	<i>Run-Pause-Run</i> programmable from 30 to 99 secs.
Display	7 Segment LED
Accessories	Spiked rubber mat (included), Sticky pad mat (optional)
Plate size	350 x 350mm
Protection Class	IP 21
Dimensions (W x D x H)	290 x 370 x 200mm

## Ordering Information

Cat. No.	Description
CR3-08X	CAPPRondo 3D Shaker 5kg capacity



# CAPP Wash

## MICROPLATE WASHER

### Compact, Inexpensive and Made for Small Scale Work

Whether you work in a research or clinical laboratory, the compact **CAPP Wash Microplate Washer** is the ideal washing tool for small scale immuno assays. Fitting into even the tightest budget, **CAPP Wash** is a perfect alternative to dependence on department washers for washing microplates and strips.

#### Features:

- 
- **CAPP Wash Microplate Washer** performs uniformly and efficiently every time
  - Washing is simple. Simply lower the tubes into the well, then push the knob to fill and release the knob to empty. Repeat for the desired number of washings and move on to the next row
  - Matches all well types. The washer can be set to the desired depth very easily by simply adjusting the two finger screws found on either side of the tubes
  - The **CAPP Wash** is available in 8-channel, 12-channel and 16-channel versions, as well as a 6-channel **Tube Wash** manual washer for 12 x 75mm test tubes
  - Produced from high-grade stainless steel and polypropylene, the washer is fully autoclavable as well as highly resistant to aggressive chemicals.
  - Unique Two-in-One Design: Each tube consists of an inner tube that releases the distilled water washing solution into the wells for rinsing, while the outer tube vacuums away the liquid upon completion of the washing procedure
  - The vacuum pump is available for 115V and 230V connections
  - All components included in the kits can also be purchased individually
    - No programming required
    - No electrical wiring connection

## Ordering Information

Cat. No.	Description
W-8	CAPPWash 8-channel
W-12	CAPPWash 12-channel
W-16	CAPPWash 16-channel
W-8KIT-115V	CAPPWash Kit including W-8, WP-115V, WB-1, WB-3, WB-4, and W-1000 (3 meters)
W-12KIT-230V	CAPPWash Kit including W-12, WP-230V, WB-1, WB-3, WB-4, and W-1000 (3 meters)

# CAPP Rondo

## TUBE ROLLER

**CAPP Rondo Tube Roller** ensures efficient mixing of blood samples, viscous substances and liquid-solid suspensions. The programmable pulse mode feature with *Run-Pause-Run* motion and variable time setting from 30 to 99 seconds, give the user additional flexibility and improve the mixing process.

Apart from the rolling motion, an additional rocking movement has been applied to the rollers to ensure optimal thorough mixing. Equipped with a brushless DC motor, **CAPP Rondo Tube Roller** provides quiet and maintenance-free operation, highly suitable for extended runs.

**CAPP Rondo Tube Roller** can accommodate up to 15 blood tubes of 7mL. The user interface panel is highly intuitive and displays both the time and speed. **CAPP Rondo Tube Roller** operates at speeds ranging from 10 up to 80 RPM. The user can program up to 9 customised protocols.

With increased user comfort and a low contamination risk in focus, **CAPP Rondo Tube Roller** has easily removable and autoclavable rollers. The stackable design and relatively small footprint will optimise your bench space.

**CAPP Rondo Tube Roller** is also suitable for use in incubators in temperatures up to 40°C and humidity up to 80%.



### Specifications:

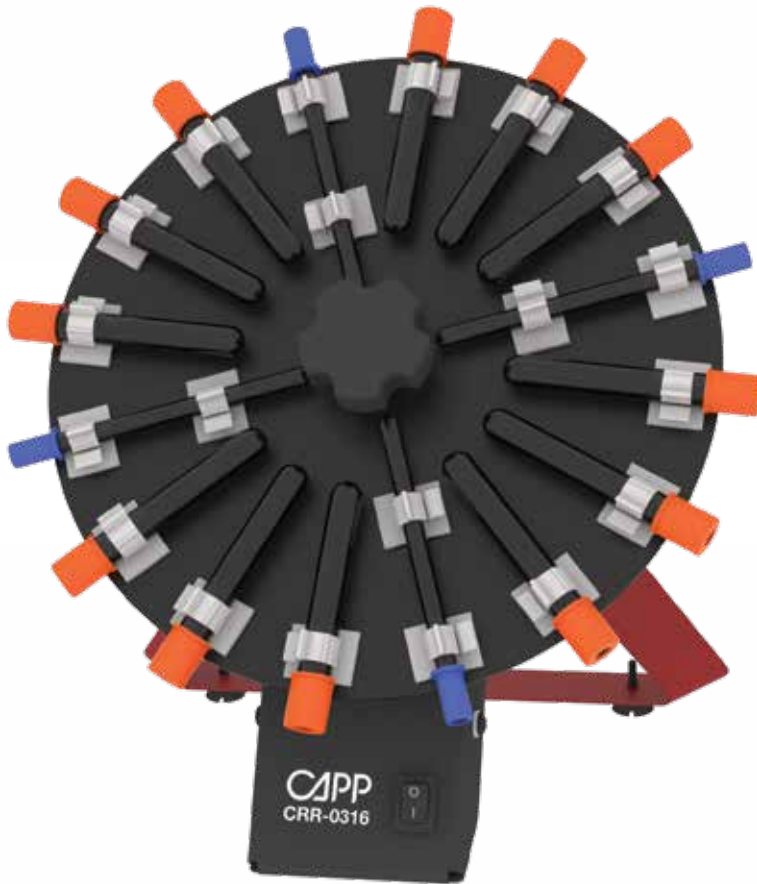
Motor Type	Brushless DC motor
Motion	Rocking and rolling
Number Of Tubes	Up to 15 x 7mL blood tubes
Speed Range	10 to 80 RPM
Time Range	1 to 99 mins
Programmable Range	9 user-defined programs
Operation Type	Continuous and timed operation
Removable Rollers	Yes, tool free removal and fitting
Pulse Mode	Yes (Run-Pause-Run mode)
Tilt Angle	+/-3°
Protection Class	IP21
Weight	6kg
Load Capacity	2kg
Dimensions (W x D x H)	502 x 92.5 x 301mm
Warranty	2 years

## Ordering Information

Cat. No.	Description
CRR-08X	CAPPRondo Tube Roller 80 RPM

# CAPP Rondo

TUBE ROTATOR



**CAPP Rondo Tube Rotator** has a strong, metal design which, along with the rubber feet, ensures its total stability during operation.

The compact design uses a minimal amount of benchtop space.

The gentle but effective mixing occurs at a fixed speed of 30 RPM with an accuracy of +/- 2 RPM.

**CAPP Rondo Tube Rotator** has a maximum capacity of 16 tubes, consisting of 4 ESR and 12 blood collection tubes. Its maximum operational weight capacity is 1.5kg. The disc plate is fixed at an angle of 38 degrees and is easily removed for cleaning or replacement.

**CAPP Rondo Tube Rotator** operates silently in the continuous mode.

## Specifications:

Max Capacity	16 Tubes (4 ESR Tubes and 12 Blood Collection Tubes)
Motor Type	AC Synchronous
Speed	Fixed Speed of 30 RPM
Operation Mode	Continuous / Infinite
Speed Accuracy	+/- 2 RPM
Angle Of Disc Plate	Fixed angle of 38 degrees
Noise Level	Noiseless operation
Load Capacity	1.5kg
Dimensions (W x D x H)	278 x 183 x 252mm
Protection Class	IP 21

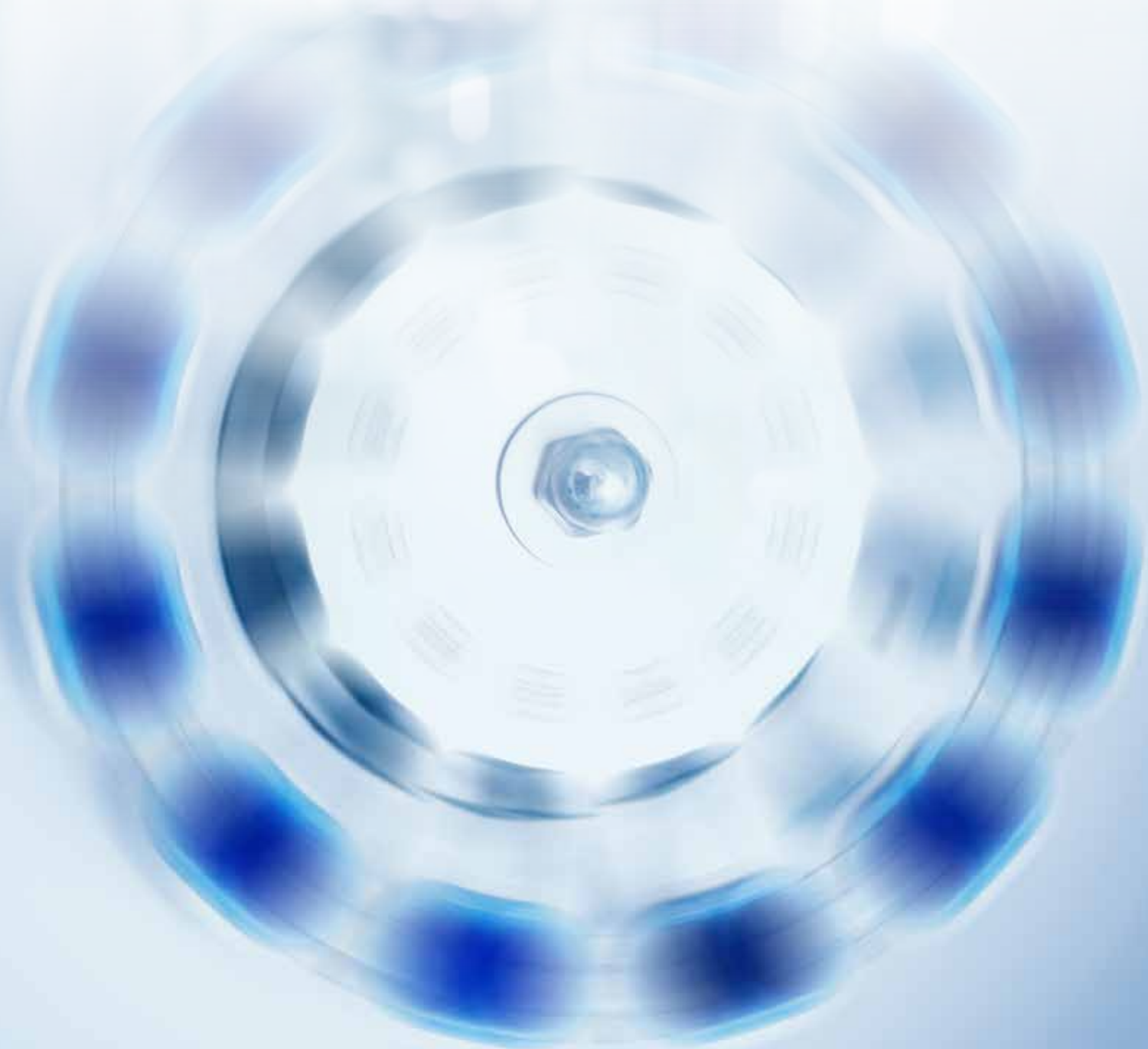
## Ordering Information

Cat. No.	Description
CRR-0316	CAPPRondo Tube Rotator for 16 blood tubes
CRR-0316-110	CAPPRondo Tube Rotator for 16 blood tubes, 110V





Providing laboratories worldwide with  
pipettes, liquid handling consumables and  
benchtop equipment of unmatched precision



# CAPP Consumables Overview

## EX Pell and EX PellPLUS

FILTER TIPS

### Highlights

- Universal pipette compatibility
- Crystal clear clarity
- Graduation marks
- Controlled pore size
- Filter free from additives
- Low retention properties
- Certified DNase, RNase, DNA/RNA, Pyrogen Free



## CAPP Harmony

SEROLOGICAL PIPETTES



### Highlights

- Universal pipette controller compatibility
- Made from transparent medical-grade polystyrene sterilized by gamma radiation
- Tested for endotoxins, cytotoxicity and guaranteed non-haemolytic



## EX PellPLUS

INDIVIDUALLY WRAPPED TIPS

### Highlights

- Universal pipette compatibility
- Sterility for every single pipetting cycle
- Ideal for applications requiring the strictest aseptic conditions
- Free from Endotoxin, DNA, DNase, RNase, and PCR inhibitor



## BluCAPP

CENTRIFUGE TUBES



### Highlights

- 15mL and 50mL
- 50mL available as non-skirted and skirted (self-standing)
- ¼ turn closure
- Autoclavable, endure up to 16.000 RCF



## EX PellPLUS

LOW RETENTION TIPS

### Highlights

- Ultra-smooth inner surface minimizing sample binding
- Universal pipette compatibility
- Ideal for viscous samples and plasma, enzymes, foaming liquids or detergents



## EX Pell

CRYO TUBES AND BOXES



### Highlights

- Coloured cap inserts for easier sample identification
- Innovative design optimizing storage space
- 0.5mL, 1.0mL, 2.0mL, 4.0mL, 5.0mL
- Lip seal closure, 100% leak proof
- External thread



## EX Pell and EX PellPLUS

RACKED TIPS

### Highlights

- Delivered in a handy and space-saving dispenser box
- Standard and low-retention, filtered and non-filtered
- Corresponding refill system available



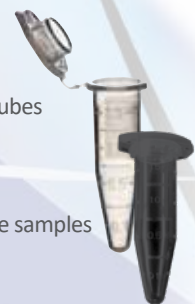
## EX Pell and EX Pell Secure

MICROCENTRIFUGE TUBES



### Highlights

- 0.5mL, 1.5mL, 2.0mL transparent microtubes
- 1.5mL available as low retention
- 1.5mL tubes available in 5 colours (magenta, blue, yellow, green, orange)
- 1.5mL black microtubes for light-sensitive samples



## EX Pell

RELOAD SYSTEM



### Highlights

- Easy to use, space-saving refill system for Capp racked tips



## EX Pell

PCR TUBES AND PLATES



### Highlights

- 0.1mL and 0.2mL PCR tubes with plug caps, strips of 8 tubes, plates and optical adhesives



## EX Pell and EX PellPLUS

BULK PIPETTE TIPS



### Highlights

- Self-standing and self-sealing plastic bags
- Universal pipette compatibility



## EX Pell

384-WELL PCR PLATES



### Highlights

- Skirted, universally compatible with basically all standard 384-well cyclers and many 384-well block (q)PCR cyclers
- Rigid, flat, stackable



## CAPP *Bravo*

SINGLE CHANNEL PIPETTE



### Highlights

- Lightweight ergonomic design
- Extremely user friendly
- Volume lock feature
- Stainless steel piston
- Universal tip cones
- Fully autoclavable



## CAPP *Maestro*

ELECTRONIC SINGLE CHANNEL PIPETTE



### Highlights

- Fully coloured OLED display
- Lightweight construction
- Large tip ejector
- User-friendly, intuitive interface
- Protocol switch by 2 clicks
- Long lasting performance
- Calibration & password setting

## ecopipette

SINGLE CHANNEL PIPETTE



### Highlights

- Lockable volume controller
- Low forces for aspiration & blow-out
- The only pipette with fixed & variable plungers
- Double o-ring for optimal tip seal
- Robust design with metal tip base
- Fully autoclavable



## CAPP *Tronic*

ELECTRONIC MULTICHANNEL PIPETTE



### Highlights

- Extremely user-friendly
- Memory capacity up to 9 protocols
- One-side programming manual
- Long-life lithium battery
- Ultimate performance
- Wide tip compatibility



## CAPP *Aero 96*

MULTICHANNEL PIPETTE



### Highlights

- Easily exchangeable counter
- Highly ergonomic tip ejection lever
- Fully autoclavable body
- Metallic tip cone with double o-rings
- Single channel accuracy and precision



## CAPP *Tempo*

PIPETTE CONTROLLER



### Highlights

- Digital display
- Adjustable speeds
- Electronic Brake System (EBS)

## CAPP *Aero 384*

MULTICHANNEL PIPETTE



### Highlights

- Unique line for 384-well pipetting
- Highly ergonomic tip ejection lever
- Superior accuracy & precision
- Fully autoclavable











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