

# BENCHTOP INSTRUMENTS



## Masters of precision

# CAPP Rondo

**CAPP Rondo** is a unique line of benchtop instruments covering centrifuges, mixers, vortexes and stirrers.

Designed with space optimization and user friendliness in focus, and based on the most recent technology, together with years of know-how in liquid handling, **CAPP Rondo** instruments are maintenance-free and ideal for long runs.

The original, fresh red color brings life and contrast to any laboratory environment and the elegant Danish design both pleases the esthetical perception, and provides unique user-friendly and user-safety features.

Achieving a quiet and reliable operation is **CAPP**'s major priority when designing the **CAPP Rondo** benchtop instruments. As a user you will be surprised how quiet they are, even at the maximum speed!

**CAPP Rondo** instruments astonish with their extremely small footprint, taking up the minimal benchtop space necessary for the equipment to operate.

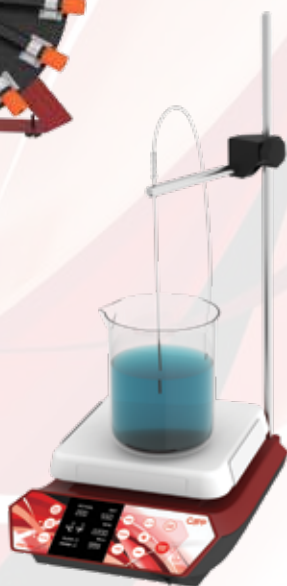
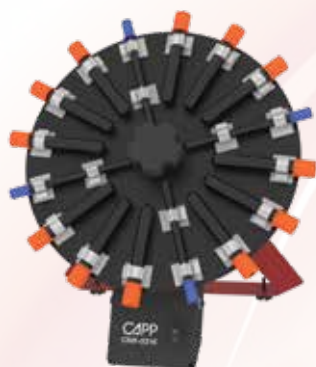
Increased user-safety has been another top priority in **CAPP**'s design process.

All **CAPP Rondo** centrifuges are equipped with an electronic safety brake system which prevents the lid from opening under full speed operation.

Additionally, the robust suction pads at the bottom of **CAPP Rondo** benchtop equipment assure safe and stable operation.

**CAPP Rondo** benchtop instruments are designed with the best user experience in focus. Large displays and intuitive interfaces increase the work comfort with **CAPP Rondo** equipment.

All **CAPP Rondo** benchtop products are covered by a 2 year warranty.



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# CAPP Rondo

## MICROCENTRIFUGE

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

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

### Additional features and benefits include:

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



## 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 1.5/2.0mL mini-centrifuge tubes to a max speed of 15.000 RPM (RCF: 15.595 x g) enabling to process samples rapidly. Routine runs, such as spin column preparations can be carried out with a minimum of time and effort. This compact centrifuge is also cold room and fume hood compatible.

### Features and benefits include:

- 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 0.2 and 0.4/0.5mL tubes - optional 2 x 8 x 0.2mL strip rotors
- 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 1.5/2mL and screw on metal lid
- Brushless DC motor: maintenance free and fit for extended runs
- Remote operation via laptop/computer
- Last run memory feature



### Specifications:

Speed setting	500 to 15.000 RPM / Min-Sec timer 1 to 999 mins
Maximum speed RPM / RCF (g)	15.000 RPM / 15.596 x g
Display	Large Backlit LCD display
Rotor Capacity	12 place aluminum rotor with metal safety lid for 1.5/2.0mL microtubes
Motor Type	Brushless DC
Noise Level	< 62 db
Imbalance Detection	Yes
Remote peration	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 0.2/0.4mL 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 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 an 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 (WxDxH)	595 x 436 x 311mm
Weight	23kg (without rotor)



**CR-43-100**

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

**CR-43-50**

6 x 50 mL swing  
rotor with SS  
tubes, RCF 3530g

**CR-43-15**

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

**CR-43-PL**

2 x microplates swing  
rotor, RCF 2355g

**CR-43-50F**

6 x 50 mL fixed angle  
rotor, RCF 2644g

**CR-43-100F**

4 x 100 mL fixed angle  
rotor, RCF 2559g

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

24 x 15 mL fixed angle  
rotor, RCF 2852g

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

16 x 15 mL fixed angle  
rotor, RCF 3144g

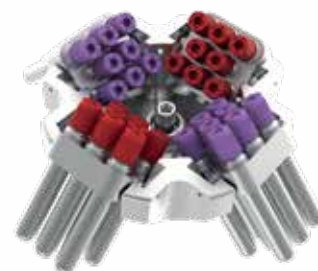


## Ordering Information

Cat No.	Description
CRC-432X	CAPPRondo Universal Centrifuge (up to 4 x 100 mL)
<b>Rotor options:</b>	
CR-43-100	4 x 100 mL swing rotor with Bio Safety Cap, RCF 3164g
CR-43-50	6 x 50 mL swing rotor with SS tubes, RCF 3530g
CR-43-15	16 x 15 mL swing rotor with SS tubes, RCF 3485g
CR-43-PL	2 x Microplates swing rotor, RCF 2355g
CR-43-100F	4 x 100 mL fixed angle rotor, RCF 2559g
CR-43-50F	6 x 50 mL fixed angle rotor, RCF 2644g
CR-43-15F-24	24 x 15 mL fixed angle rotor, RCF 2852g
CR-43-15F-16	16 x 15 mL fixed angle rotor, RCF 3144g
CR-43-15F-30	30 x 15 mL fixed angle rotor, RCF 2729g
CR-43-10	32 x 10 mL swing rotor, RCF 3164g (includes 32 x 10 mL SS tubes + 32 x 10 mL rubber adapters for tube diameter 13x length 100mm + 32 x adapters for tube dia. 13x length 75mm)

**CR-43-15F-30**

30 x 15 mL fixed angle  
rotor, RCF 2729g

**CR-43-10**

32 x 10 mL swing rotor,  
RCF 3164g

# CAPP Rondo

## HIGH SPEED REFRIGERATED CENTRIFUGE



### CAPP Rondo High Speed Refrigerated Centrifuge

operates with the maximum speed of 17.000 RPM, corresponding to 27.237 g. It's an ideal centrifuge for molecular and cellular applications, such as ethanol precipitation, phenol extraction, NA preparation, cell collection or spin-down of temperature sensitive reaction mixtures.

### CAPP Rondo High Speed Refrigerated Centrifuge

offers a maximum rotor capacity of 30 microtubes (18 microfilter tubes or 64 PCR tubes). Its operating temperature range is from -20°C to +40°C.

The samples are cooled down to the temperature of 4°C in just 5 minutes.

The chamber is rust-free and Teflon-coated.

The compressor-off function prevents from unnecessary cooling and frosting while the lid is open.

As with all CAPP Rondo instruments, the

**High Speed Refrigerated Centrifuge** offers quiet operation, keeping the noise level at only 56 dB. The parameters can be changed upon operation unless the Key Lock Function is activated.

### CAPP Rondo High Speed Refrigerated Centrifuge

offers multiple rotor options.

### Specifications:

Max. RPM / Fixed angle	17.000 RPM
Max. RCF / Fixed angle	27.237 x g
Max. capacity / Fixed angle	30 x 1.5 / 2.0ml, 8 PCR strips
Max. capacity / Swing-out	4 x 4 x 1.5 / 2.0ml
Temp range (°C)	-20°C to +40°C
FAST cool button	Yes
Time control	Pulse, timed <100 min, or continuous
Time counting range	Selectable, at set speed or from starting
RCF/RPM conversion	Yes
Noise level	≤56 dB (dependent on rotor)
Acc. time to max. speed	≤17 sec
Dec. time from max. speed	≤15 sec
ACC/DEC ramps	9/10

Program memory	100
Parameters on display window	RPM(RCF), Operating Status, Door Open/Close, Min:Sec, Temp, (ACC), (DEC)
Display	Blue LCD
Rotor Identification	Automatic
Imbalance cutout	Yes
Safety lid lock	Yes
Lid drop protection	Yes
CE Mark	Yes
Power supply (V/Hz)	200V / 50~60Hz (110V optional)
Power requirement (VA)	2KVA
Dimension (W x D x H)	310 x 620 x 265mm
Weight without rotor	43kg



**CR-17-24**

Fixed angle rotor of CR-1730R for 24 x 1.5mL / 2.0mL microtubes.  
45°, Hole diameter 11.1mm,  
Max. height for tube fit 52mm.  
Supplied with O-ring sealed.

**CR-17-5**

Fixed angle rotor of CR-1730R for 12 x 5mL for screw and snap cap microtubes.  
45°, Hole diameter 17mm,  
Max. height for tube fit 64mm. Supplied with O-ring sealed.

**CR-17-30**

Fixed angle rotor of CR-1730R for 30 x 1.5mL / 2.0mL microtubes.  
45°, Hole diameter 11.1mm, Max. height for tube fit 52mm. Supplied with O-ring sealed.

**CR-17-PCR**

Fixed angle PCR-tube Rotor of CR-1730R for 64 x 0.2µL PCR tubes or 8 rows of PCR strips. 45°, Hole diameter 6.5mm, Max height for tube fit 16mm.

**CR-17-D8**

Drum Rotor of CR-1730R for 8 x 1.5mL / 2.0mL microtubes (buckets are not included)  
90°, Hole diameter 11.1mm, Max. height for tube fit 50mm.

**CR-17-18**

Fixed angle rotor of CR-1730R for 18 x 1.5mL / 2.0mL microfilter tubes.  
45°, Hole diameter 11.1mm, Max. height for tube fit 65mm.  
Supplied with O-ring sealed.

**CR-17-D16**

Drum Rotor of CR-1730R for 16 x 1.5mL / 2.0mL microtubes (buckets are not included)  
90°, Hole diameter 11.1mm, Max. height for tube fit 43mm.



## Ordering Information

### Refrigerated Centrifuge

Cat No.	Description
CR-1730R	CAPPRondo Refrigerated Centrifuge. 17.000 RPM / 27.237g, 220V
CR-1730R-110	CAPPRondo Refrigerated Centrifuge. 17.000 RPM / 27.237g, 110V

### Rotors and accessories for CR-1730R

CR-17-24	Fixed angle rotor of CR-1730R for 24 1.5mL / 2.0mL microtubes
CR-17-30	Fixed angle rotor of CR-1730R for 30 1.5mL / 2.0mL microtubes
CR-17-18	Fixed angle rotor of CR-1730R for 18 microfilter tubes
CR-17-5	Fixed angle rotor of CR-1730R for 12 x 5mL screw and snap cap microtubes
CR-17-PCR	Fixed angle PCR-tube Rotor of CR-1730R for 64 PCR tubes or 8 rows of PCR strips
CR-17-D8	Drum Rotor of CR-1730R for 8 microtubes (buckets are not included)
CR-17-D16	Drum Rotor of CR-1730R for 16 microtubes (buckets are not included)

### Buckets for the Rotors of CR-1730R

CR-17-B8	Single tube bucket Drum Rotor CR-17-D8 (total 8 buckets are required)
CR-17-B16	4-tube bucket Drum Rotor CR-17-D16 (total 4 buckets are required)

### Buckets for the Rotors of CR-1730R

CR-17-02	0.2 mL adaptor of microtube rotors
CR-17-05	0.5 mL adaptor of microtube rotors

# Microcentrifuge Tubes

The graduated **EX Pell Microcentrifuge Tubes** are manufactured from virgin PP, out of the finest molds available.

## Features:

- One-handed open/close operation
- Perfect sealing and evaporation protection
- Polished interior to prevent from protein adhesion
- High clarity for good sample visibility.

All **EX Pell Microcentrifuge Tubes** are DNase, RNase, Pyrogen free and withstand up to 20.000g.

## Black Microcentrifuge Tubes:

With a special focus on processing light-sensitive samples, **CAPP** has developed **EX Pell Black Microcentrifuge Tubes**. The black tubes are available in one size (1.5mL) and come bulk packed in bags of 500pcs.

The black Polypropylene compound creates a completely opaque barrier, preventing light from causing any reactions within the liquid inside the tube, making the tubes ideal for processing light sensitive samples. **EX Pell Black Microcentrifuge Tubes** are a great alternative to the commonly used method of wrapping the tube in aluminum foil in order to protect the samples from light impact.

**EX Pell Black Microcentrifuge Tubes** are suitable for applications requiring photo-sensitive, fluorescent or ethidium bromide probes. Unlike amber tinted tubes, they are completely opaque and protect even the most light-sensitive samples.



## Ordering Information

Cat. No.	Description
5100500C	Expell Microcentrifuge tubes 0.5mL, bulk, 10x1000 pcs.
5001500C	ExpellPlus Microcentrifuge tubes 1.5mL, bulk, low retention, 20x500 pcs.
5101500C	Expell Microcentrifuge tubes 1.5mL, bulk, 20x500 pcs.
5101590C	Expell Microcentrifuge tubes 1.5 mL, bulk, assorted colors, 20x500 pcs. (magenta, blue, yellow, green, orange)
5101550C	Expell Microcentrifuge tubes 1.5 mL, bulk, black, 20x500 pcs.
5102000C	Expell Microcentrifuge tubes 2.0mL, bulk, 10x500 pcs.

# EXpell PCR

## PCR TUBES & PLATES

**CAPP EXpell PCR** line comprises of 0.1mL and 0.2mL tubes with plug caps, strips of 8 tubes, strips, plates and optical adhesives. The V-shape bottom allows total sample recovery and the thin-walled wells of polypropylene allow a very good transmission of temperature and minimize condensation.



5100200C



5100210C



5100211C



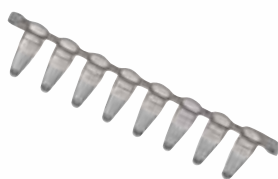
5100212C



5100213C



5100300C



5100310C



5100311C



5100313C



5100400C

## Ordering Information

**For standard PCR / qPCR thermocyclers that require regular profile 0.2mL tubes**

Cat. No.	Description
5100200C	Expell PCR tubes 0.2mL, bag, 20x1000 pcs.
5100210C	Expell PCR strips of 8 tubes 0.2mL, bag, 20x120 pcs.
5100211C	Expell PCR strips of 8 caps (flat), for 0.1mL and 0.2mL tubes, bag, 30x120pcs.
5100212C	Expell PCR strips of 8 tubes w/ single attached caps 0.2mL, 8x120 pcs.
5100213C	Expell PCR plate of 96 x 0.2mL, 8x 25 pcs., non-skirted

**For fast PCR / qPCR thermocyclers that require low profile 0.1mL tubes**

Cat. No.	Description
5100300C	Expell PCR tubes 0.1mL, bag, 20x1000 pcs.
5100310C	Expell PCR strips of 8 tubes 0.1mL, bag, 15x120 pcs.
5100311C	Expell PCR strips of 8 tubes w/ single attached caps 0.1mL, 8x120 pcs.
5100313C	Expell PCR plate of 96 x 0.1mL, 8x 25 pcs., non-skirted
5100400C	Expell PCR Optical Disposable Adhesive, bag of 100 pcs.



# 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 allow a reliable performance, ease of use and safety.



### Ease of use:

- Rotor capacity of up to 8 x 15mL tubes on a fixed angle rotor
- Adaptors included to 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 air flow 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 / 3.873g
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	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 / 3.873g for 8 x 15mL

# CAPP Rondo

## CLINICAL CENTRIFUGE

**CAPP Rondo Clinical Centrifuge** operates at a maximum speed of 4.000 RPM.

Three types of rotor are available: two fixed angle rotors for 8 x 15mL or 16 x 10mL tubes and a swing-out rotor with a capacity of 6 x 10mL tubes.

Following **CAPP's** technology, the centrifuge is equipped with a robust brushless DC motor, which is ideally suited for extended runs and provides a maintenance-free, long-lasting and quiet operation.

**CAPP Rondo Clinical Centrifuge** offers variable speed settings with precise increments of 10 RPM, starting from 500 up to a maximum centrifugal speed of 4.000 RPM.

With user safety in focus, **CAPP Rondo Clinical Centrifuge** has been equipped with a safety lid brake, preventing the lid from fully opening until the rotor has completely stopped.

The compact design and low loading height enable easy and efficient operation.

The user can program up to 99 individual protocols, and access the short spin function by a single touch on the operational panel.

**CAPP Rondo Clinical Centrifuge** is supplied with multiple tube adaptors for 2mL, 3mL, 4mL, 6mL and 9mL tubes.



### Specifications:

Rotor Types (optional)	6x10mL (swing-out) / 8x15mL (fixed angle) / 16x10mL (fixed angle)
Max. Speed	4.000 RPM / 2.270g (swing-out rotor)
Speed Settings	500-4.000 RPM in steps of 10 RPM
Timer Settings	1-999 minutes or infinite mode
Programmable Features	Up to 99 user defined protocols
Lid Lock Safety	Yes
Imbalance Detection	Yes
Dimensions (LxWxH)	415x355x173mm
Weight	7.7kg (without rotor)
Adaptors included	2mL, 3mL, 4mL, 6mL and 9mL

## Ordering Information

Cat No.	Description
CRC-416X	CAPPRondo Clinical Centrifuge 4.000 RPM
CRC-4-8	Fixed angle rotor of CRC-416X for 8x15mL tubes
CRC-4-16	Fixed angle rotor of CRC-416X for 16x10mL tubes
CRC-4-6S	Swing-out rotor of CRC-416X for 6x10mL tubes

CAPPRondo Clinical Centrifuge 4.000 RPM, CRC-416X, is designed for processing blood and other clinical samples in applications like PRP, medical practitioners, pathological laboratories, as well as for routine hospital centrifuging test. In particular it is used for processing and analyzing samples from human body in in vitro diagnostic applications to ensure that in vitro diagnostic device can be used according to Directive 98/79/EC. Therefore CAPPRondo Clinical Centrifuge 4.000 RPM, CRC-416X, and its accessories being in-vitro diagnostic accessories are themselves in-vitro diagnostic medical devices within the meaning of directive 98/79/EC of the European Parliament and of the Council of 27 October 1998 on in-vitro diagnostic medical devices.

# CAPP Rondo

## 3D 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 provides thorough homogenous mixing.

The user can save up to 9 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, **CAPP Rondo 3D Shaker** 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	Run-Pause-Run programmable from 30 to 99 secs.
Display	7 Segment LED
Accessories	Spiked rubber mat (included), Sticky pad mat (optional)
Plate size	350x350mm
Protection Class	IP 21

## Ordering Information

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



# 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 throughout optimal 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 speed ranging from 10 up to 80 RPM. The user can program up to 9 customized protocols.

With an increased user comfort and a low contamination risk in focus, **CAPP Rondo Tube Roller** operates with easily removable and autoclavable rollers. The stackable design and relatively small footprint will optimize 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:

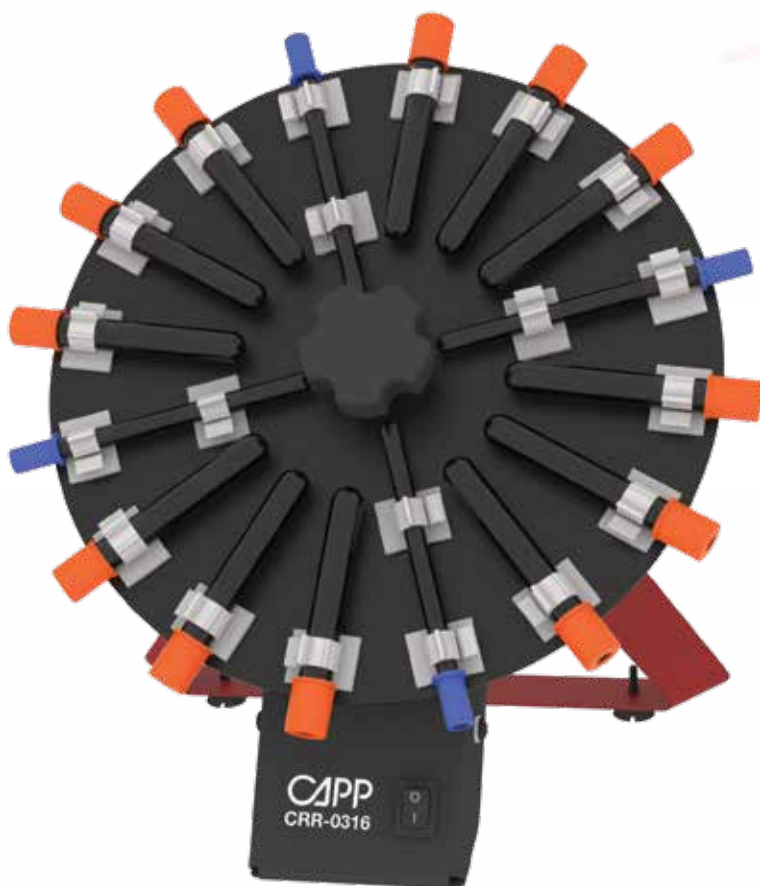
Motor Type	Brushless DC motor
Motion	Rocking and rolling
Number Of Tubes	up to 15 x 7mL blood tubes
Speed Range	10 to 80 RPM
Time Range	1 to 99 mins
Programmable Range	9 user-defined programs
Operation Type	Continuous and timed operation
Removable Rollers	Yes, tool free removal and fitment
Pulse Mode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

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

**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	278x183x252mm
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

## MINI VORTEX MIXER



**CAPP Rondo Mini Vortex Mixer** offers the ideal solution for thorough mixing and quick vortexing, with high performance in terms of 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 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 on the bench.
- Inbuilt counterbalance system creates maximum vortexing action, while minimizing 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 aluminum 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 gm	
General Data	Permissible ambient temperature	5 - 40 °C	
	Permissible relative moisture	80%	
	Material	Body	PC ABS
		Platform	Die Cast
	Dimension (W×D×H)	100×100×67mm	
	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 inbuilt counter-balance 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 (WxDxH)	200x225x107mm
Timer Setting	0-999 mins and continuous
Pulse Mode	Yes, Programmable
Max. Load Capacity	1kg
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

## CENTRIFUGE TUBES

Designed to cover the everyday need for sample storage and centrifugation in the lab, the **BluCAPP Centrifuge Tubes** feature easy-to-read graduations as well as a large writing area (20x50mm).

### Features:

- The leak-proof caps have large ridges to provide the optimal grip when wearing gloves
- Combined with the 3/4 turn closure, it significantly increases speed and allows one-handed operation
- Made from polypropylene, the **BluCAPP Centrifuge Tubes** are autoclavable and tested to endure up to 16.000 RCF



## Ordering Information

Cat. No.	Description
5100015C	BluCAPP Centrifuge Tubes, 15mL, pre-sterile, 20x25 pcs.
5100050C	BluCAPP Centrifuge Tubes, 50mL, pre-sterile, 20x25 pcs.
5100060C	BluCAPP Centrifuge Tubes, 50mL, pre-sterile, self-standing, 20x25pcs.

# CAPP Rondo

## PLATFORM SHAKER

**CAPP Rondo Platform Shaker** offers a shaking mass capacity of 7.5kg. Its orbital and linear reciprocating motion along with the motor technology ensures thorough mixing and a long-life, maintenance free operation, 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 programmables modes, such as motion direction, speed, time, dwell time, sequence and loop operation. The user can program up to 6 individual protocols, each one with additional 9 sub-protocols.

Thanks to the multiple attachment platforms, **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 operational run 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 (WxDxH)	408x350x99mm
Platform Size	330x330mm
Protection Class	IP 21
Programmable Features	Up to 6 individual protocols, each with additional 9 sub-programs
Programmable Looping	YES
RS 232 Interface	Optional

## 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 500 mL)
CRP-D	Disk Attachment Base Plate with Slip Resistance Tray
CRP-C9-250	Base Plate with 9 Plastic Clamps: 9 x 250 mL
CRP-C9-500	Base Plate with 9 Plastic Clamps: 9 x 500 mL
CRP-F	Funnel Attachment
CRP-CS9-250	Base Plate with 9 Stainless Steel Clamps: 9 x 250 mL
CRP-CS9-500	Base Plate with 9 Stainless Steel Clamps: 9 x 500 mL
CRP-CS-100	Stainless Steel Clamp for 100 mL Flask
CRP-CS-150	Stainless Steel Clamp for 150 mL Flask
CRP-CS-250	Stainless Steel Clamp for 250 mL Flask
CRP-CS-500	Stainless Steel Clamp for 500 mL Flask
CRP-CS-1000	Stainless Steel Clamp for 1000 mL Flask



CRP-U



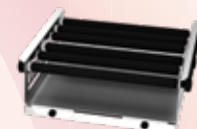
CRP-D



CRP-C9-250



CRP-C9-500



CRP-F



CRP-CS9-250



CRP-CS9-500



CRP-CS-250



# 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 maximize 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	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

The **CAPP Rondo Magnetic Hotplate Stirrer** has a load capacity of 10 litres and comes with a ceramic coated SS plate and a powerful motor, delivering 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, a 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.

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	140 mm
Weight	1.4kg
Dimensions (WxDxH)	248x156x104mm
Protection Class	IP 21
Accessories included	CRS-21H-P and CRS-21H-S

## Ordering Information

Cat No.	Description
CRS-21H	CAPPRondo Magnetic Hotplate Stirrer 2200 RPM, 320°C ceramic, 10L capacity, 220V
CRS-21H-110	CAPPRondo Magnetic Hotplate Stirrer 2200 RPM, 320°C ceramic, 10L capacity, 110V
CRS-21H-P	P1000 temperature probe for CAPPRondo CRS-21H Magnetic Hotplate Stirrer
CRS-21H-S	Stand for P1000 temperature probe CAPPRondo CRS-21H Magnetic Hotplate Stirrer

# CAPP Rondo

## HOTPLATE STIRRER

The **CAPP Rondo Hotplate Stirrer** offers three heating modes: rapid, gradual and accurate heating. It operates with heating temperatures ranging from ambient to 550°C.

Its plate surface is made of robust nano-crystalline glass ceramic and ensures full resistance towards liquid splash or temperature shocks.

The **CAPP Rondo Hotplate Stirrer** operates at a variable speed ranging from 200 to 2.200 RPM. The speed can be set up in intervals of 10 RPM and the time can be programmed from 1 to 999 minutes, or continuous, infinite operation.

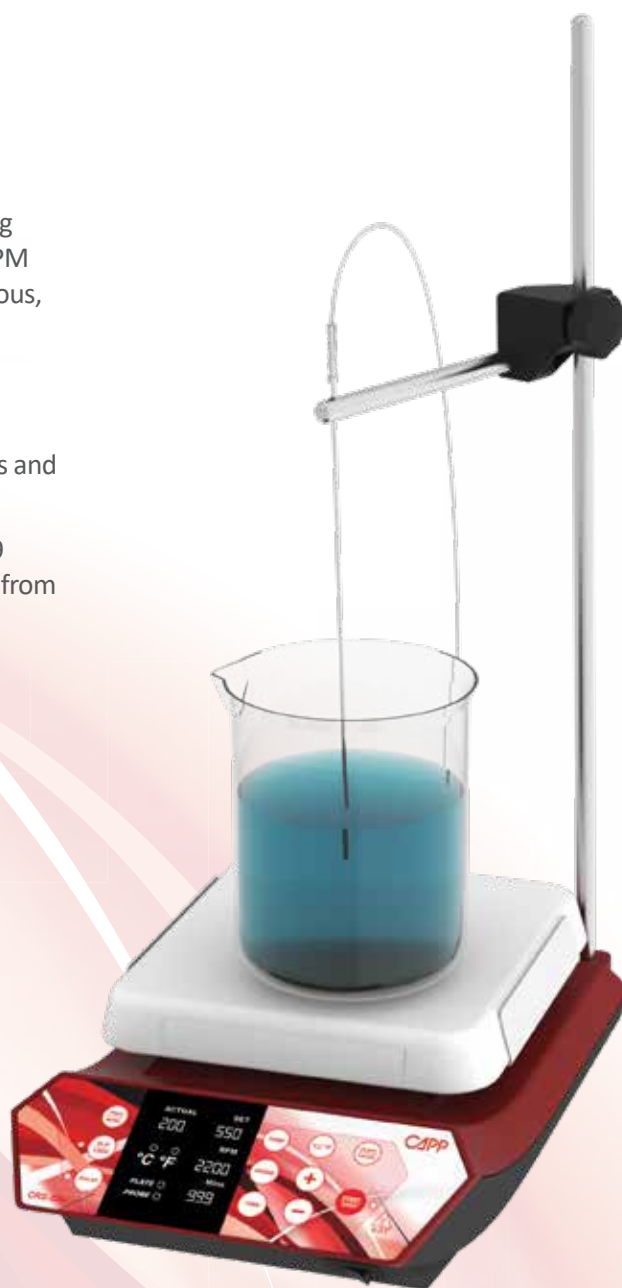
The motor technology of the **CAPP Rondo Hotplate Stirrer** ensures constant speed under varying load weight.

The large user-friendly display provides an overview of all parameters and enables easy and comfortable operation.

With the **CAPP Rondo Hotplate Stirrer** the user can program up to 99 individual protocols as well as set up the programmable Pulse Mode from 30 to 99 seconds.

### Specifications:

Speed Range	200-2.200 RPM in steps of 10 RPM
Temperature Range	From ambient to 550°C
Load Capacity	20L
Motor Type	Brushless DC motor
Top Plate Material	Nano-crystalline glass ceramic
Top Plate Dimensions	180x180mm
Time Setting	1-999 minutes or infinite
Programmable Modes	Up to 99 individual protocols
Pulse Mode	Programmable, from 30 to 99 secs.
Dimensions (WxDxH)	220x330x115mm
Weight	4.5kg
Protection Class	IP 21



## Ordering Information

Cat No.	Description
CRS-22H	CAPPRondo Hotplate Stirrer 2.200 RPM, 550°C ceramic, 20L capacity, 220V
CRS-22H-110	CAPPRondo Hotplate Stirrer 2.200 RPM, 550°C ceramic, 20L capacity, 110V
CRS-22H-P	P1000 temperature probe for CAPPRondo Hotplate Stirrer
CRS-22H-S	Stand for P1000 temperature probe CAPPRondo Hotplate Stirrer



# 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 inbuilt 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
Inbuilt Counterbalance	Yes
Power Supply	Universal (90 to 230V, 50/60 Hz.)
Dimensions (W x D x H)	127 x 85 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 in up to 4 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 and Benefits Include:

- Speed range 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 ensuring an ultimate grip for all 4 plates
- Digital display which gives the user an overview of the speed and time settings
- Small and compact design which requires minimum benchtop space
- Effortless loading and unloading and easy access to all 4 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
Inbuilt Counterbalance	Yes
Dimensions (L x W 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 Wash

## MICROPLATE WASHER

### ***Compact, Inexpensive and Made For Small Scale Work!***

Whether you work in a research or in a 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.



## 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)



### Features:

- No programming required
- No electrical wiring connection
- Just a washer that performs uniformly and efficiently every time!
- 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.
- Washing is Simple: Simply lower the tubes into the well, then push the knob to fill and release the knob to empty. Now repeat for the desired amount of washings and move on to the next row. It's that simple!
- 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 12x75mm test tubes.
- The vacuum pump is available for 115V and 230V connections.
- All components included in the kits can also be purchased individually.





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