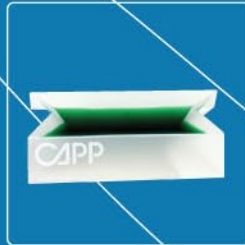


Product Guide

CAPP[®]



Capp is
ISO9001:2000
Certified

CappAero™ conforms to
ISO8655

We take pipetting to perfection



CappAero™ Single

CappAero™ Comfort

The CappAero™ Comfort reduces thumb workload by up to about 70% compared to other manual pipettes. CappAero™ Comfort incorporates a separate tip ejection lever to quickly and simply eject a tip without the need to use your thumb. The unique design of CappAero™ Comfort reduces fatigue and consequently imprecision during repetitive pipetting. The force required for aspiration and blow out is reduced considerably and the result is a reduced strain on your hand.



CappAero™ Universal

The CappAero™ Universal has all pipetting functions (dispensing, blow out and tip ejection) comfortably combined in one button.

Capp pipettes feature the unique DoubleSafe™ o-rings system, which provides the world's best tip compatibility, and the smoothest tip mounting and ejection.

All pipettes are manufactured with robust metal tip bases, ensuring long lasting accuracy and precision.



Ordering information:



Comfort SoftLine	Universal Standard	Volume	Colour
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-	02-1CZ	0.2-2 µl	● Violet
10-1AZ	10-1BCZ	0.5-10 µl	● White
20-1AZ	20-1BCZ	2-20 µl	● Gray
50-1AZ	50-1BCZ	5-50 µl	● Red
100-1AZ	100-1BCZ	10-100 µl	● Orange
200-1AZ	200-1BCZ	20-200 µl	● Yellow
1000-1AZ	1000-1BCZ	100-1000 µl	● Blue
5000-1AZ	-	1-5 ml	● Green

Specifications valid for all CappAero™ Single channel pipettes

Colour	Size	Volume µl	Inaccuracy %	Imprecision % (CV)
● Violet	0.2-2 µl	0.2	± 12.00	≤ 6.00
		1	± 3.10	≤ 1.60
		2	± 2.00	≤ 1.00
○ White	0.5-10 µl	1	± 2.50	≤ 1.80
		5	± 1.16	≤ 0.64
		10	± 1.00	≤ 0.50
● Gray	2-20 µl	2	± 3.50	≤ 1.50
		10	± 1.20	≤ 0.40
		20	± 1.00	≤ 0.30
● Red	5-50 µl	5	± 1.50	≤ 0.80
		25	± 0.80	≤ 0.35
		50	± 0.70	≤ 0.30
● Orange	10-100 µl	10	± 1.00	≤ 0.80
		50	± 0.74	≤ 0.26
		100	± 0.70	≤ 0.20
● Yellow	20-200 µl	20	± 0.90	≤ 0.30
		100	± 0.72	≤ 0.22
		200	± 0.60	≤ 0.20
● Black	30-200 µl	30	± 0.83	≤ 0.30
		100	± 0.72	≤ 0.22
		200	± 0.60	≤ 0.20
● Black	125-300 µl	125	± 0.70	≤ 0.22
		150	± 0.70	≤ 0.18
		300	± 0.70	≤ 0.15
● Blue	100-1000 µl	100	± 0.70	≤ 0.20
		500	± 0.61	≤ 0.16
		1000	± 0.60	≤ 0.15
● Green	1-5 ml	1000	± 0.60	≤ 0.15
		2500	± 0.45	≤ 0.15
		5000	± 0.40	≤ 0.15



Accessories:

Code	Description
C-01	CappAero™ Combi Stand (2 modules)
S-06	Carousel stand for 6 single or 3 multi channel pipettes
W-1M	Wall holder for CappAero™ pipettes
T-01	CappTimer™

Test procedures in accordance with ISO 8655.

We take pipetting to perfection

CappAero™ Starter Kit

The CappAero™ Starter Kit provides you all the tools you need for a perfect pipetting. You may also make your own personalised CappAero™ Starter Kit by selecting any pipette range that suit your specific needs.

Ordering information:

Code	Description
SK-03-XX	3 x single pipette, pipette stand & 3 racks of tips
SK-08-XX	2 x 8-channel pipette, pipette stand & 2 racks of tips
SK-12-XX	2 x 12-channel pipette (or 1 x 8-channel and 1 x 12-channel), pipette stand & 2 racks of tips



CappAero™ Multi

Made for your hand The curved finger rest in the handle perfectly fits your hand and tip ejection is simple.

Made with you in mind The unique DoubleSafe™ o-ring feature allows effortless and leak free tip mounting and smooth ejection of a wide range of commonly available tips.

Made for flexibility CappAero™ multi channel pipettes are designed for left and right handed operation and combines the functionality of a fixed and a variable volume pipette. It facilitates one hand volume adjustment and features volume locking.

Made to last Anodised aluminium, high-grade stainless steel and durable plastics combine to make Capp the most robust multi channel pipette range available. The metal tip bases are easily interchangeable, so in the unlikely event you break a tip base, it can be individually replaced.



Variable and fixed volume controller: 2 in 1 in the same pipette.



Ordering information:

CappAero™ Multi				
Standard	SoftLine	Type	Volume	Colour
10-8AZ	SL10-8AZ	8-channel	0.5-10 µl	● White
50-8AZ	SL50-8AZ	8-channel	5-50 µl	● Red
200-8AZ	SL200-8AZ	8-channel	20-200 µl	● Yellow
300-8AZ	SL300-8AZ	8-channel	30-300 µl	● Black
10-12AZ	SL10-12AZ	12-channel	0.5-10 µl	● White
50-12AZ	SL50-12AZ	12-channel	5-50 µl	● Red
200-12AZ	SL200-12AZ	12-channel	20-200 µl	● Yellow
300-12AZ	SL300-12AZ	12-channel	30-300 µl	● Black

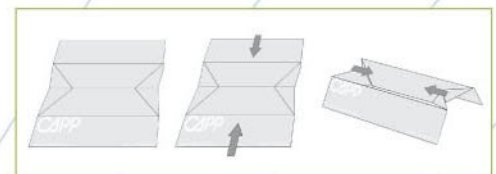


CappOrigami™ Reagent Reservoirs

The CappOrigami™ represents a new way of thinking when it comes to reagent reservoirs. Its shape, along with the stiffness of the material used, ensures that the reservoir forms a sharp V at the bottom. This makes your pipetting easier and saves on reagents. To use the reservoir, simply flick it up by pushing the sides together. The pre-folded lines make the reservoir easy to join into the proper shape.

Ordering information:

Code	Description	Unit	Packaging
CA40505	30 ml reservoirs for 8- and 16-channel pipettes	Pack/50	Non-Sterile
CA40506	30 ml reservoirs for 8- and 16-channel pipettes	Pack/ 10x5	Sterile
CA40510	40 ml reservoirs for 12-channel pipettes	Pack/50	Non-Sterile
CA40511	40 ml reservoirs for 12-channel pipettes	Pack/ 10x5	Sterile



We take pipetting to perfection

CappAero™ 384 well manual pipetting

The World's only!

Most applications involving 384 well plates are performed using automated systems. As the world only Capp makes it possible to pipette quickly with high precision without the use of expensive dedicated automated equipment.

384 well pipetting made easy

Following from the highly successful CappAero™ 16 channel pipettes, Capp offers 48 and 64 channel versions which allow users to pipette a very large number of samples within a short period of time, and with a much reduced workload. As a consequence, without the need of having to set up a robot it is now possible to easily and confidently pipette onto Microarray slides, Maldi TOF plates, and 384 well microplates/-modules, including for PCR.

Capp PipetFast™

To further assist the safe and high precision pipetting, we developed a special support system. The PipetFast System is easy to adjust in all axis and accommodates 384 wells with an SBS (microplate) footprint. To facilitate the pipetting onto Microarray slides, Capp additionally offers an SBS footprint SlideHolder, taking up to four slides. Capp also offers a range of high quality pipette tips to complement our system



Target Applications
 PCR Set-up
 MicroArrays
 Maldi
 Genotyping
 More....



Ordering information:

CappAero™ 384 well manual pipetting		Color Code
Cat. No.	Description	
Standard Line		
02-16AZ	Multi Pipettes, 16-channel, 0.2-2 ul, Standard	● Violet
10-16AZ	Multi Pipettes, 16-channel, 0.5-10 ul, Standard	● White
50-16AZ	Multi Pipettes, 16-channel, 5-50 ul, Standard	● Red
10-48AZ	Multi Pipettes, 48-channel, 0.5-10 ul, Standard	● White
10-64AZ	Multi Pipettes, 64-channel, 0.5-10 ul, Standard	● White
SH-01	PipetFast™ System for CappAero™ 16, 48 and CappAero™ 64 Multipipettes	
SH-04	Slide Holder for microarray	

Pipette tips for CappAero™ 16-, 48- and 64 MultiPipettes			
Code	Description	Qty/pack	Packs/ case
4030003	Expell 0.2-60ul Clear, hinged racks (10x384 pcs.)	10x384	1
4030005	ExpellPlus 0.2-60ul Clear, sterile, hinged racks (10x384 pcs.)	10x384	1
4030006	ExpellPlus 0.2-30ul Clear, sterile, hinged racks (10x384 pcs.)	10x384	1
4030007	ExpellPlus 0.2-30ul Clear, sterile with filter, hinged racks (10x384 pcs.)	10x384	1

We take pipetting to perfection

CappTronic™ Electronic Pipettes

The CappTronic™ combines the ease-of-use features of a manual pipette with the benefits of a motor driven, electronic pipette. The self-explanatory display allows you to follow the operational steps at a glance while pipetting.

CappTronic™ comes complete with the most widely used pipetting modes, including forward and reverse pipetting, multi dispensing, mixing, and sequential dispensing. Extensive memory capacity allows you to store as many as 9 different of your own individual protocols. Supplied with two easily exchangeable long-life lithium batteries, identical to that of a mobile phone, you won't even lose work time when re-charging.

Features and benefits

- A large easy-to-read display.
- The best user interface.
- The most widely used pipetting and dispensing modes.
- Extensive memory capacity (9 individual protocols).
- Long battery life (lithium battery).
- Individually adjustable settings of pipetting speed (5 levels).
- Compliance with standards and regulations (ISO 8655, CE, and GLP).
- Compliance with a great variety of pipette tips (double O-rings at tip bases).
- Affordable pricing



Ordering information:

CappTronic™ Single

Code	Description	Colour	Innaccuracy* % (±)	Imprecision** % (≤)
E20-1BA	CappTronic™ single channel 2-20µl	● Red	5.00 / 2.50 / 1.00	2.00 / 1.15 / 0.30
E200-1BA	CappTronic™ single channel 10-200µl	● Yellow	2.00 / 1.00 / 0.60	1.00 / 0.575 / 0.15
E1000-1BA	CappTronic™ single channel 100-1000µl	● Blue	1.50 / 1.00 / 0.50	0.60 / 0.375 / 0.15

CappTronic™ Multi

Code	Description	Colour	Innaccuracy* % (±)	Imprecision** % (≤)
E20-8BA	CappTronic™ 8 channel 2-20µl	● Red	5.00 / 2.50 / 1.00	2.00 / 1.15 / 0.30
E200-8BA	CappTronic™ 8 channel 10-200µl	● Yellow	2.00 / 1.00 / 0.60	1.00 / 0.575 / 0.15

* Maximum Systematic Error (ISO 8655) and ** Maximum Random Error (ISO 8655) measured at minimum, medium and maximum volumes.

CappWash™ Micro Plate Washer

The CappWash™ is ideal for washing plates in small series. The adjustable finger screws let you adjust to different well depths and geometries, preventing the tubes to scratch the bottom of the wells. The special two-in-one washing tube design makes holding the tubes by hand easy; Simply lower the tubes into the well, press the knob once per washing and move to the next row.

Code Description

W-8	CappWash™ 8-channel
W-8 KIT	CappWash™ 8-channel, including vacuum pump, waste collection bottle, bottle for washing solution and silicon tubing.
W-12	CappWash™ 12-channel
W-16	CappWash™ 16-channel



LiquiMaster™ Automated Liquid Handling

The LiquiMaster™ is designed to perform operations such as dispensing, diluting, pipetting, or plate filling up to 5 times faster than by conventional means. The system has an electronically controlled pump unit with optional accessories including filling needles, single pipettes, 8-channel dispensers, and a small robot for automated filling of microplates.

LiquiMaster™

Code Description

LM-421	Basis models with all pipetting functions
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Information on the various pipette modules, filling and suction needles, and tubing are available on request.



ExpellPlus™

Plus™ low retention properties

Tests show that the ExpellPlus™ tips deliver volumes within 0.1 % of the set volume, versus 0.5-0.7 % for standard tips. This significant difference in sample retention also is clearly visible when pipetting a dyed liquid (See illustration).

ExpellPlus™ Filter tips

The ExpellPlus™ tips also comprise of very affordable and high quality filter tips, the use of which eliminates any risk of cross contamination. The ExpellPlus™ filter tips are tested and certified to conform to strict bio-load specifications;

- No detectable nucleic acid contamination
- No detectable PCR inhibitors
- No detectable endonucleases
- No detectable endotoxin
- Sterile



Conventional tip.



ExpellPlus™

Ordering information:

Expell™ and ExpellPlus™ Filter Tips

Cat. No.	Description	Qty	Packaging
5030030	ExpellPlus™ 10µl FT	10 racks of 96	Racked/Sterile w/Filter
5030060	ExpellPlus™ 10µl FT, long	10 racks of 96	Racked/Sterile w/Filter
5030062	ExpellPlus™ 20µl FT	10 racks of 96	Racked/Sterile w/Filter
5030066	ExpellPlus™ 100µl FT	10 racks of 96	Racked/Sterile w/Filter
5030090	ExpellPlus™ 200µl FT	10 racks of 96	Racked/Sterile w/Filter
5130150	Expell™ 1000µl FT	8 racks of 60	Racked/Sterile w/Filter



Expell™ and ExpellPlus™ Pipette Tips

Cat. No.	Description	Qty	Packaging
5130010	Expell™ 10µl	1000	Bulk
5030010	ExpellPlus™ 10µl	1000	Bulk
5030015	ExpellPlus™ 10µl	10 racks of 96	Racked
5030020	ExpellPlus™ 10µl	10 racks of 96	Racked/Sterile
5030035	ExpellPlus™ 10µl Reload	20 cards of 96	Reload/Sterile
5030040	ExpellPlus™ 10µl, long	1000	Bulk
5030045	ExpellPlus™ 10µl, long	10 racks of 96	Racked
5030050	ExpellPlus™ 10µl, long	10 racks of 96	Racked/Sterile
4130075	Expell™ 200µl, yellow	1000	Bulk
5130070	Expell™ 200µl	1000	Bulk
5030070	ExpellPlus™ 200µl	1000	Bulk
5030075	ExpellPlus™ 200µl	10 racks of 96	Racked
5030080	ExpellPlus™ 200µl	10 racks of 96	Racked/Sterile
5030095	ExpellPlus™ 200µl	10 racks of 96	Reload/Sterile
5130100	Expell™ 300µl	1000	Bulk
5130105	Expell™ 300µl	10 racks of 96	Racked
5130110	Expell™ 300µl	10 racks of 96	Racked/Sterile
4130135	Expell™ 1000µl, blue	1000	Bulk
5130130	Expell™ 1000µl	1000	Bulk
5130135	Expell™ 1000µl	16 racks of 60	Racked
5130140	Expell™ 1000µl	16 racks of 60	Racked/Sterile
5130160	Expell™ 5000µl	250	Bulk
5130165	Expell™ 5000µl	10 racks of 50	Racked

BluCapp™ 15&50 ml Centrifuge Tubes

Designed to cover the everyday need for sample storage and centrifugation in the lab, the BluCapp™ feature easy to read graduations as well as a large writing area (20x50mm). The leak proof caps have a large ridges to provide the optimal grip when wearing gloves. Combined with ¾ turn closure, it significantly increases opening speed and allows one-handed operation. Made of polypropylene, the BluCapp™ centrifuge tubes are autoclavable, and are tested to endure up to 5000 RCF.

Code	Description	Unity	Packaging
5100050	BluCapp™ 50ml	50	Bulk/Sterile
5100015	BluCapp™ 15ml	50	Bulk/Sterile



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