

Product Guide 2007

CAPP[®]



Capp is
ISO9001:2000
Certified

CappAero™ conforms to
ISO8655

We take pipetting to perfection.

CappAeroTM Single

CappAeroTM Comfort, SoftLine

The CappAeroTM Comfort reduces thumb workload by up to about 70% compared to other manual pipettes. The CappAeroTM Comfort incorporates a separate tip ejection lever allowing you to quickly and simply eject a tip without the need to use your thumb. The unique design of CappAeroTM Comfort reduces fatigue and consequently imprecision during repetitive pipetting. The force required for aspiration and blow out is reduced considerably and the result is reduced strain on your hand. The CappAeroTM Comfort thus virtually eliminates the risk of pipetting related repetitive strain injuries while providing more comfort for your hand.

CappAeroTM Short, SoftLine

CappAeroTM Short is the perfect tool for Molecular Biology work. Ultra micro volume ranges available at 0.2-2µl and 0.5-10µl are ideal for PCR. The CappAeroTM Short pipettes allow you to keep the pipette vertical during pipetting, and still comfortably rest the elbow on the bench top. They are also ideal for gel loading. It's SoftLine versions are rubber coated, offering the ultimate grip sensation and comfort.

CappAeroTM Universal, ColorLine

The cool transparent handle and dash of vibrant colour on the barrel ensures the ColorLine series will be a welcome addition to any laboratory. The distinctive colour of each pipette permits you to quickly identify the volume range of any pipette at a glance.



CappAeroTM Comfort and CappAeroTM Short



Comfort
SoftLine

Short
SoftLine

Volume

Colour

-	SL02-1CZ	0.2-2 µl	● Violet
SL10-1AZ	SL10-1CZ	0.5-10 µl	● White
SL 20-1AZ	SL 20-1CZ	2-20 µl	● Gray
SL50-1AZ	SL50-1CZ	5-50 µl	● Red
SL100-1AZ	SL100-1CZ	10-100 µl	● Orange
SL200-1AZ	SL200-1CZ	20-200 µl	● Yellow
SL1000-1AZ	SL1000-1CZ	100-1000 µl	● Blue
SL5000-1AZ	-	1-5 ml	● Green

CappAeroTM Universal



Universal
Standard

Universal
ColorLine

Universal
SoftLine

Volume

Colour

10-1BCZ	CL10-1BCZTT	SL10-1BCZ	0.5-10 µl	● White
20-1BCZ	CL20-1BCZTT	SL20-1BCZ	2-20 µl	● Gray
50-1BCZ	CL50-1BCZTT	SL50-1BCZ	5-50 µl	● Red
100-1BCZ	CL100-1BCZTT	SL100-1BCZ	10-100 µl	● Orange
200-1BCZ	CL200-1BCZTT	SL200-1BCZ	20-200 µl	● Yellow
1000-1BCZ	CL1000-1BCZTT	SL1000-1BCZ	100-1000 µl	● Blue

Specifications valid for all CappAeroTM Single and Multi 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	± 5.00	≤ 1.50
		10	± 1.40	≤ 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

Test procedures in accordance with ISO 8655.

CappAero™ Starter Kit

The CappAero™ Starter Kit is ready-to-use set which includes 3 pipettes free of choice, covering a volume range of 0.2-5000µl, a rack of tips for each pipette volume and a pipette stand. Feel welcome to create your own personalised CappAero™ Starter Kit!

Ordering information:

Code	Description
SK-03-XX	3 x single pipette, pipette stand & 3 racks of tips
SK-02-08	2 x single pipette & 1 x 8-channel pipette stand, 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 8-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 soft flexible handle perfectly fits your hand and tip ejection is simple.

Made with you in mind Double o-rings on every tip base allows for 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 or right handed operation and combines the functionality of a fixed and a variable volume pipette. It facilitates one hand volume adjustment and 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 interchangeable so in the unlikely event you break a tip base you can replace it individually.



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
02-16AZ	SL02-16AZ	16-channel	0.2-2 µl	● Violet
10-16AZ	SL10-16AZ	16-channel	0.5-10 µl	● White
50-16AZ	SL50-16AZ	16-channel	5-50 µl	● Red

A complete range for 384-well experiments

The common way of setting up an experiment in 384-well plates is to use an 8-channel pipette and pipette twice per row. By using a 16-channel pipette instead, you can cut the number of pipettings in half. Not only can this save you valuable time, but it will also make it easier on your hand and thumb.

With 16-channel pipettes in three volume ranges as well as a 16-channel washer, Capp offers you the widest choice of products for 384-well work.

Accessories

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



We take pipetting to perfection.

CappTronic™ Electronic Pipettes

The CappTronic™ combines the ease-to-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 long-life lithium batteries and a portable battery charger, 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	Gray	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	Gray	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.

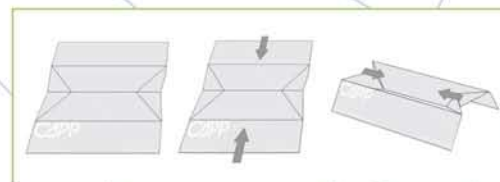


CappOrigami™ Reagent Reservoirs

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 consistently forms a sharp V-shape at the bottom. This makes your pipetting easier and also makes it possible to save on reagents, as you only need to pour the needed amount into the reservoir. The CappOrigami™ reservoirs are packed, shipped and stored as flat sheets. This way they are less bulky to ship and take up considerably less room in storage. To use the reservoir, simply flick it up by pushing the sides together. The pre-folded lines make the reservoir easy to open 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.

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, taking care that the tubes don't scratch the bottom of the wells. The special two-in-one washing tube design makes washing very easy; Simply lower the tubes into the well, press the knob once per washing and move to the next row. It couldn't be easier!



Code	Description
W-6	Capp TubeWash™ 6-channel
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 a user-friendly, programmable peristaltic pump, designed to perform operations such as dispensing, diluting, pipetting or plate filling up to 5 times faster than by conventional means. Accommodating tubing sizes from 0.3 to 4 mm, the LiquiMaster™ provides easy and high protocols. It ideally replaces tedious and time consuming laboratory work.



LiquiMaster™

Code	Description
FM-421	Basis models with all pipetting functions (includes pumphead FM-H112)

Information on the various pipette modules, filling and suction needles, and tubing are available on request.



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 the ¾ turn closure, it significantly increases speed and allows one-handed operation. Made of polupropylene, the BluCapp™ centrifuge tubes are autoclavable, and are tested to endure up to 6000 RCF (15 ml) and 9400 RCF (50 ml).

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



ExpellPlus™

ExpellPlus™ Filter tips

The ExpellPlus™ tips also comprise of a very affordable and high quality range of 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

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).

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
4030005	ExpellPlus™ 0.2-60µl*	10 racks of 384	Racked/Sterile
4030006	ExpellPlus™ 0.2-30µl*	10 racks of 384	Racked/Sterile
4030007	ExpellPlus™ 0.2-30µl*	10 racks of 384	Racked/Sterile with filter
* special for use with 16-channel pipettes from Capp.			
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
5130040	Expell™ 10µl, long	1000	Bulk
5130045	Expell™ 10µl, long	10 racks of 96	Racked
5130050	Expell™ 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



Conventional tip.



ExpellPlus™

