

Micropipettes



The BOECO Micropipette is an adjustable or fixed volume, air displacement, general purpose pipette for dispensing liquids precisely and safely.

The single channel BOECO Micropipettes cover a wide range from 0,1 µl - 5,0 ml.

The multichannel models are available as 4-, 8- and 12-channel versions with volume ranges 0,5 µl-10 µl, 5-50 µl and 50-250 µl.

Fixed Volume Pipette, with tip ejector

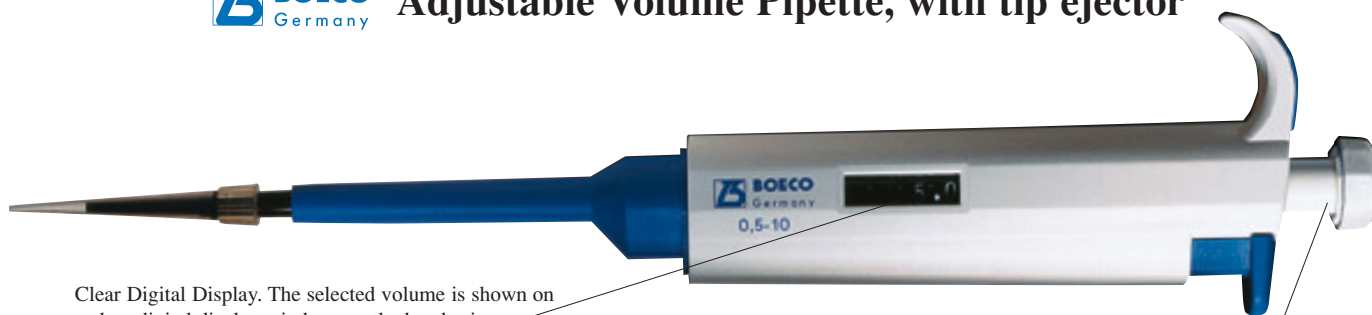


Coloured push bottoms to identify the size of the tip cone.

Cat.No.	Volume	Inaccuracy	Imprecision
BOE 9220005	5 µl*	< 3,0 %	< 1,5 %
BOE 9220010	10 µl*	< 1,4 %	< 0,8 %
BOE 9220020	20 µl	< 1,0 %	< 0,5 %
BOE 9220025	25 µl	< 1,0 %	< 0,5 %
BOE 9220050	50 µl	< 0,9 %	< 0,3 %
BOE 9220100	100 µl	< 0,8 %	< 0,3 %

Cat.No.	Volume	Inaccuracy	Imprecision
BOE 9220200	200 µl	< 0,6 %	< 0,2 %
BOE 9220250	250 µl	< 0,6 %	< 0,2 %
BOE 9220500	500 µl	< 0,6 %	< 0,2 %
BOE 9221000	1000 µl	< 0,6 %	< 0,2 %
BOE 9222000	2000 µl	< 0,6 %	< 0,2 %
BOE 9225000	5000 µl	< 0,6 %	< 0,2 %

Adjustable Volume Pipette, with tip ejector



Clear Digital Display. The selected volume is shown on a clear digital display window on the hand grip.

Volume adjustment is easily archived by turning the thumb activated plunger mechanism.

Cat.No	Volume	Increment	Test Volume	Inaccuracy	Imprecision
BOE 9210002	0,1 - 2,5 µl	0,05 µl	2,5 µl	2,50%	2,00%
			1,25 µl	3,00%	3,00%
			0,25 µl	12,00%	6,00%
BOE 9210010*	0,5 - 10 µl	0,1 µl	10 µl	1,00%	0,80%
			5 µl	1,50%	1,50%
			1 µl	2,50%	1,50%
BOE 9210050	5 - 50 µl	0,5 µl	50 µl	0,60%	0,30%
			25 µl	0,90%	0,60%
			5 µl	2,00%	2,00%
BOE 9210100	10 - 100 µl	1 µl	100 µl	0,80%	0,15%
			50 µl	1,00%	0,40%
			10 µl	3,00%	1,50%
BOE 9210220	20 - 200 µl	1 µl	200 µl	0,60%	0,15%
			100 µl	0,80%	0,30%
			20 µl	3,00%	1,00%
BOE 9211100	100 - 1000 µl	5 µl	1000 µl	0,60%	0,20%
			500 µl	0,70%	0,25%
			100 µl	2,00%	0,70%
BOE 9215000	1 - 5 ml	50 µl	5 ml	0,50%	0,15%
			2,5 ml	0,60%	0,30%
			1 ml	0,70%	0,30%

*for use with 10µl and 300µl tips



Accessories:

BOE 9000005

Rotary Carousel stand
for 5 pipettes



The multichannel models feature new tip construction providing easy single handed tip sealing and ejecting.

Cat.No.	Channels	Volume range	Increment	Test volume	Inaccuracy	Imprecision
BOE 9304050	4-ch	5 - 50 µl	0,5 µl	50 µl	1,00%	0,50%
				25 µl	1,50%	1,00%
				5 µl	3,00%	2,00%
BOE 9304250	4-ch	50 -250 µl	5 µl	250 µl	0,70%	0,25%
				125 µl	1,00%	0,50%
				50 µl	1,50%	0,80%
BOE 9308011*	8-ch	0,5 - 10 µl	0,1 µl	10 µl	1,50%	1,50%
				5 µl	2,50%	2,50%
				1 µl	4,00%	4,00%
BOE 9308050	8-ch	5 - 50 µl	0,5 µl	50 µl	1,00%	0,50%
				25 µl	1,50%	1,00%
				5 µl	3,00%	2,00%
BOE 9308250	8-ch	50 -250 µl	5 µl	250 µl	0,70%	0,25%
				125 µl	1,00%	0,50%
				50 µl	1,50%	0,80%
BOE 9312050	12-ch	5 - 50 µl	0,5 µl	50 µl	1,00%	0,50%
				25 µl	1,50%	1,00%
				5 µl	3,00%	2,00%
BOE 9312250	12-ch	50 -250 µl	5 µl	250 µl	0,70%	0,25%
				125 µl	1,00%	0,50%
				50 µl	1,50%	0,80%

* for use with 10µl tips

Cat.No.	Colour / Quality	Capacity	Packing
BOE 981345	natural, superior quality	10 µl	5000 tips in one box
BOE 984418	yellow, high quality	200 µl	bags of 1000 pcs.
BOE 980300	natural, superior quality	300 µl	bags of 1250 tips
BOE 984428	blue, high quality	1000 µl	bags of 1000 pcs.
BOE 985000	natural, superior quality	5000 µl	bags of 300 pcs.

Pipette tips on racks and filtertips upon request.

All indicated Pipette specifications are type test specifications archived under strictly controlled conditions (ISO 8655).

The plastic materials for the BOECO Pipettes have been carefully selected to provide robust construction yet maintaining the exceptional ergonomic and light weight qualities of the Pipette.

All BOECO Pipettes are supplied with the calibration/opening tool, grease, instruction manual, pipette holder, labels for colour coding, a performance certificate and are manufactured under ISO 9001 norm.

The Pipettes are designed to fit to many of the most common Pipette tips on the market.

The Liquid Handling System

BOECO Electronic Pipettor is not just an electronic pipettor. It is a hand-held liquid handling system that combines the features of a manual adjustable pipettor, a separate liquid dispenser and a electronic diluter.



Electronic Pipettors



Cat.No.	Channels	Volume range	Increment	Test volume	Inaccuracy	Imprecision
BOE 920010	1-ch	0,2 - 10 µl	0,1 µl	10 µl	0,90%	0,50%
				5 µl	1,00%	0,70%
				1 µl	2,50%	1,50%
				0,2 µl	6,00%	6,00%
BOE 920100	1-ch	5 - 100 µl	1 µl	100 µl	0,40%	0,15%
				50 µl	0,70%	0,30%
				10 µl	2,00%	1,00%
				5 µl	2,50%	1,80%
BOE 920250	1-ch	10 - 250 µl	5 µl	250 µl	0,40%	0,15%
				125 µl	0,70%	0,20%
				25 µl	1,50%	0,80%
				10 µl	2,00%	1,00%
BOE 920500	1-ch	10 - 500 µl	5 µl	500 µl	0,40%	0,15%
				250 µl	0,70%	0,20%
				50 µl	1,50%	0,80%
				10 µl	6,00%	1,50%
BOE 921000	1-ch	50 - 1000 µl	10 µl	1000 µl	0,40%	0,15%
				500 µl	0,60%	0,20%
				100 µl	1,50%	0,50%
				50 µl	2,00%	1,00%
BOE 925000	1-ch	100 - 5000 µl	50 µl	5000 µl	0,50%	0,15%
				2500 µl	0,80%	0,20%
				500 µl	0,80%	0,30%
BOE 928100	8-ch	5 - 100 µl	1 µl	100 µl	0,50%	0,20%
				50 µl	0,70%	0,30%
				10 µl	1,50%	1,50%
				5 µl	4,00%	2,50%
BOE 928250	8-ch	25 -250 µl	5 µl	250 µl	0,40%	0,15%
				125 µl	0,60%	0,20%
				25 µl	1,50%	1,00%
BOE 928120	8-ch	50 -1200 µl	10 µl	1200 µl	0,50%	0,15%
				600 µl	1,00%	0,20%
				100 µl	4,00%	0,80%
				50 µl	8,00%	1,50%
BOE 922100	12-ch	5 - 100 µl	1 µl	100 µl	0,50%	0,20%
				50 µl	0,80%	0,40%
				10 µl	1,50%	1,50%
				5 µl	4,00%	2,50%
BOE 922250	12-ch	25 -250 µl	5 µl	250 µl	0,40%	0,15%
				125 µl	0,60%	0,20%
				25 µl	1,50%	1,00%

All BOECO Electronic Pipettors require to be charged using one of the charging stands below:

Charging Stand for 1 Pipettor

BOE 920000 220V, Euro plug

BOE 920001 110V, U.S. plug

BOE 920002 240V, U.K. plug

Charging Stand for 4 Pipettors

BOE 920040 220V, Euro plug

BOE 920041 110V, U.S. plug

BOE 920042 240V, U.K. plug

BOECO Electronic pipettors are multifunctional liquid handling instruments offering a selection of four operation programs:

Pipetting, Multiple dispensing, Dilution and Reverse pipetting.

All pipettes have a wide operational volume range and are easily programmed with variable pipetting speeds and small incremental volumes. The programmable pipetting speed provides optimal pipetting conditions for various viscosities. As a diluter they perform up to a dilution ratio of 1:25 and as a dispenser up to 25 strokes with one single filling.

The Electronic Pipettor uses a DC motor for fast piston movements monitored by a real time optical feedback system. This, together with microprocessor control, ensures reliable pipetting operations and eliminates the need of recalibration. Electronic operation combined with light weight and ergonomically designed operation button and tip ejector minimize the stress and fatigue on both thumb and wrist.

As a stand for placement of the pipettor between dispensing routines, a single stand and a multiple stand are available. The stands also act as a recharging station ensuring the NiCd-batteries are maintained at an optimal performance level. Over 1.000 pipettings are easily achieved in a working day.



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