

# Liquid Handling

Bottle Top Dispenser  
Titration Station  
Digital Burette  
Digital Pipettes



The EMC-Bottle Top Dispenser Eco zero is a reliable standard-dispenser suitable for nearly all applications of dispensing liquids in the laboratory.

## Features:

- Fulfills all applicable standards and official demands
- Quick, easy and precise volume adjustment with rocket switch
- Turnable discharge tube for perfect air-purging mechanism – zero dead volume
- Direct displacement piston
- Cylinder out of borosilicate glass 3.3
- Patented long life PTFE piston with PTFE coated o-ring
- Single-hand operation
- Flexible by using different bottle adapters
- 4 adapters for all common bottles included
- Completely autoclavable at 121°C
- Certificate of performance with serial number
- DE-M marked according to the German calibration law

The Eco zero allows liquid dispensing with no loss of reagent. Turning the discharge tube 90° lets you pump in a closed cycle. The reagent flows back into the bottle and the dispenser is free of air after 2 or 3 times pumping. This allows not only very precise dispensing and saving residual reagent but also volume correction if accidentally setting the wrong volume. Turning the discharge tube 180° lets all liquid flow back into the bottle and prevents dripping.



Article No.	Volume (ml)	Increment (ml)	Tolerances (ml)	CV (ml)	Thread size (GL)	Adapter (GL)
EMC-20054077	0.25 - 2.5	0.05	±0.012	0.002	32/33	A25, A28, A45, S40
EMC-20054078	0.5 - 5	0.10	±0.03	0.005	32/33	A25, A28, A45, S40
EMC-20054079	1 - 10	0.20	±0.06	0.010	32/33	A25, A28, A45, S40
EMC-20054080	2.5 - 25	0.50	±0.15	0.025	45	A25, A28, A32, S40
EMC-20054081	5 - 50	1.00	±0.3	0.050	45	A25, A28, A32, S40
EMC-20054082	10 - 100	2.00	±0.6	0.100	45	A25, A28, A32, S40

*Without the illustrated glass bottle*

The EMC-TS 50 is a comfortable and easy to use titration station including a digital burette 0-50 ml and the inductive magnetic stirrer IMS 1 E.

The digital burette allows liquid handling with no loss of reagent. Turning the discharge tube 90° lets you pump in a closed cycle. The reagent flows back into the bottle and the dispenser is free of air after 2 or 3 times pumping. This allows not only very precise dispensing and saving residual reagent but also volume correction if accidentally setting the wrong volume. Turning the discharge tube 180° lets all liquid flow back into the bottle and prevents dripping.

### Features burette:

- Direct displacement piston with viton o-ring preventing liquids from crystallizing
- Turnable discharge tube for perfect air-purging mechanism – zero dead volume
- Resistant against most acids and alkalis
- Two modes selectable (dosing DOS and titration TIT)
- Volume range 0-50.0 ml for dosing mode
- Volume range 0-99.99 ml for titration mode
- RS232 interface
- PC software TITREXSOFT included
- Flexible by using different bottle adapters
- 4 adapters for all common bottles included
- Burette completely autoclavable at 121°C
- Tolerance: 0.2% Deviation: 0.1% thread: GL45
- Certificate of performance with serial number
- DE-M marked according to the German calibration law



### Features stirrer:

- Up to 3,000 ml stirring volume
- 100% wear-free
- No maintenance
- Speed range from 120 to 1,400 rpm
- 3 years warranty
- Magnetic stirring bar 40x8 mm included



Article No.	Description
EMC-20054090	Titration station including burette and inductive magnetic stirrer
EMC-20054088	Digital burette 50 ml EMC-TS 50
EMC-20043022	Inductive magnetic stirrer IMS 1 E

*Without the illustrated glass bottle and Erlenmeyer flask*

The EMCLAB Pipette is an adjustable single-channel microliter pipette made for the daily use in the laboratory: accurate, robust and handy. The seven models available cover a volume range from 0.2  $\mu\text{l}$  to 5000  $\mu\text{l}$ .

### Features:

- Color-coded
- High accuracy and precision according DIN EN ISO 8655
- Ergonomic design
- Optimized spring force for comfortable pipetting
- Tip ejector and piston made of stainless steel
- Fits all common pipette tips
- Easy recalibration
- Completely autoclavable at 121°C
- Certificate of performance with serial number
- DE-M marked according to the German calibration law



Article No.	Volume ( $\mu\text{l}$ )	Increment ( $\mu\text{l}$ )	$A \pm (\mu\text{l})$ ( $CV \leq (\mu\text{l})$ )	Color	Tips
EMC-5721040	0.2-2.0	0.1	0.08 (0.04)	red	1 (crystal)
EMC-5721041	0.5-10	0.1	0.12 (0.08)	red	1 (crystal)
EMC-5721042	2-20	0.1	0.20 (0.10)	yellow	2 (yellow)
EMC-5721043	10-100	1.0	0.80 (0.30)	yellow	2 (yellow)
EMC-5721044	20-200	1.0	1.60 (0.60)	yellow	2 (yellow)
EMC-5721045	100-1000	10	8.0 (3.0)	blue	3 (blue)
EMC-5721046	1000-5000	10	40 (15)	black	4 (clear)

EMCLAB pipette tips are high quality tips made to perfectly fit EMCLAB pipettes. We only use pure resins and moulds to manufacture quality tips made in Europe.


#### Features:



- Made of high quality polypropylene
- Fit all EMCLAB pipettes
- Optimal stability
- Excellent volume accuracy and transparency
- Autoclavable
- Guaranteed dust-free due to special ionization treatment



Article No.	Model	Pcs/Pack
EMC-5721013	Pipette tips, crystal, 0,5-20 µl	1000
EMC-5721016	Pipette tips, crystal, 0,1-10 µl	1000
EMC-5721019	Pipette tips, yellow, 1-200 µl	1000
EMC-5721022	Pipette tips, yellow, 1-250 µl	1000
EMC-5721028	Pipette tips, blue, 100-1000 µl	1000

**UV / VIS Spectrophotometer**  
 Single Beam  
 Double Beam  
 NANO




 



**Laboratory Autoclaves**  
 EMC-ACH 23  
 EMC-ACH 29  
 EMC-ACH 45





**Stirrer**  
 Inductive Magnetic Stirrer  
 Hotplate Stirrer





EMCLAB Instruments GmbH  
 Kulturstrasse 55  
 47055 Duisburg | Germany  
 Fon: +49 203 41859410  
 Fax: +49 203 41504809  
 E-mail: [info@emc-lab.de](mailto:info@emc-lab.de)  
 Web: [www.emc-lab.de](http://www.emc-lab.de)

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