

Stirrer & Liquid Handling



**Inductive Magnetic
Stirrer
Hotplate Stirrer
ATEX Stirrer**



**Bottle Top Dispenser
Titration Station
Digital Burette
Digital Pipettes & Tips**



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EMCLAB Stirrer & Liquid Handling

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Inductive Magnetic Stirrer with internal controller

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Inductive Magnetic Stirrer with external controller

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External Controller for IMS

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Hotplate Stirrer

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Ex-protected Stirrer

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Accessories

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Bottle Top Dispenser, Burette & Pipette

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Pipette single/ 8-/12- channel	0.1 – 5000 ml	16 models	18
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Pipette Tips	0.5 – 1000 µl	18 models	19

Inductive Magnetic Stirrer IMS

Features:

- 100% wear-free
- No maintenance
- Ultra-flat
- Made for permanent operation
- 30% more stirring power than comparable systems
- Synchronous speed at all stirring points
- Super-flat, space-saving stirring drives – ideal for robotics
- Low consumption power supply

Our magnetic drives are working on the inductive principle. This means that instead of conventionally motors with pull magnets, is working with stationary coils, which are defined flown through by alternating currents. The thereby generated electromagnetic rotating field is 100% wear- and maintenance-free. The drive does not have any mechanically moved parts, as e.g. belts, bearings or motors. Therefore, the drives are reliable and absolutely wear-free even at high operation temperatures (up to +300 °C). 3 years warranty on material and manufacturing, developed and made in Germany.

EMCLAB IMS 1 E

1 stirring position, up to 3,000 ml stirring volume, also suitable for the operation with aggressive media. Price-optimized magnetic stirrer, 100% maintenance-free and wear-free by inductive EMCLAB-Magnetic-Drive concept for mixing of solutions, speed range from 120 up to 1,400 rpm, jerk-free stirring even at low speeds.

Soft Start for reliable catching/centering and safe accelerating of the stirring bar, fully encapsulated stainless steel housing, extremely robust construction.

IMS 1 E	EMC-20043022
Stirring points	1
Stirring volume	1 – 3,000 ml
Speed range	120 – 1,400 rpm
Stirring power (max)	10 W
Dimension (WxDxH)	120 x 120 x 35 mm
Housing material	Stainless steel
Operation conditions	-10°C - +50°C / 80% H
Electrical data	100-240 V/ 50-60Hz /0.7 A
Protection category	IP 64
Weight (gross)	1.7 kg



Inductive Magnetic Stirrer IMS 1 – IMS 15 E

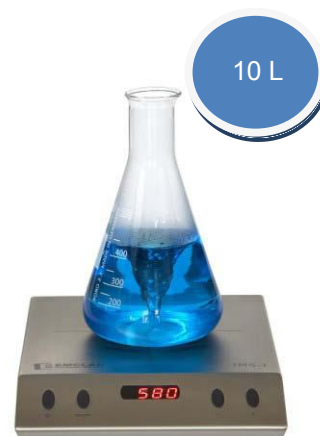
EMCLAB IMS 1

1 stirring position, up to 10000 ml stirring volume, also suitable for viscous media.

100% maintenance-free and wear-free by inductive EMCLAB-Magnetic-Drive concept for powerful mixing of solutions, extremely wide speed range from 100 to 2,000 rpm, jerk-free stirring even at low speeds, 4-step power settings for high power with regard to large and viscous stirring volumes and reduced power for the warming-free continuous operation.

Clear digital display for speed- and power settings, SoftStart for reliable catching/centering and safe accelerating of the stirring bar. QuickSet for quick setting of start- and maximum speed. Automatic memory function to save the last settings, outstanding long-life cycle of the hermetically sealed drive system, resistant stainless steel housing for easy and fast cleaning.

IMS 1	EMC-20043021
Stirring points	1
Stirring volume	1 – 10,000 ml
Speed range	100 – 2,000 rpm
Power setting	5/10/15/20 W (4-step)
Dimension (WxDxH)	188 x 238 x 38 mm
Housing material	Stainless steel
Operation conditions	-10°C - +50°C / 80% H
Electrical data	100-240 V/ 50-60Hz/ 0.7 A
Protection category	IP 64
Weight (gross)	4.0 kg



EMCLAB IMS 15 E

15 stirring positions, up to 1,500 ml stirring volume, suitable for 15 x 250 ml beakers (tall form).

100% maintenance-free and wear-free by inductive EMCLAB-Magnetic-Drive concept for powerful mixing of solutions, speed range from 120 up to 1,200 rpm, 100% synchronized speeds, jerk-free stirring even at low speeds.

Clear digital display for stirrer speed setting, SoftStart for reliable catching/centering and safe accelerating of the stirring bar. Automatic memory function to save the last settings, outstanding long-life cycle of the hermetically sealed drive system, resistant stainless steel housing for easy and fast cleaning.

IMS 15 E	EMC-20043023
Stirring points	15
Stirring points distance	65 mm
Stirring volume/point	1 – 1,500 ml
Speed range	120 – 1,200 rpm
Stirring power (max.)	10 W
Dimension (WxDxH)	245 x 425 x 38 mm
Housing material	Stainless steel
Operation conditions	-10°C - +50°C / 80% H
Electrical data	100-240 V/ 50-60Hz/ 0.7 A
Protection category	IP 64
Weight (gross)	8.8 kg



Inductive Magnetic Stirrer IMS 1 W – IMS 15 W

EMCLAB IMS with external controller

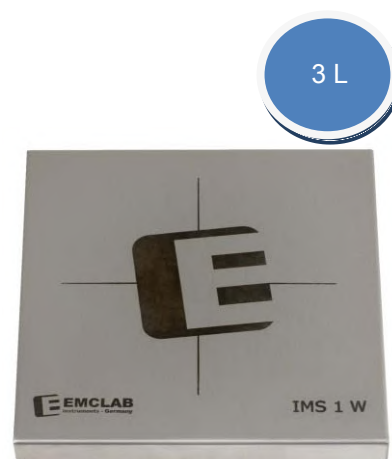
Ultra-flat, 100% maintenance-free and wear-free by inductive EMCLAB-Magnetic-Drive concept for mixing of solutions, speed range depends on controller, jerk-free stirring even at low speeds. Fully encapsulated and hermetically sealed stainless steel housing, IP 68, water-, dust- and germproof. Extremely robust construction and performance, easy to clean and maximum resistance, submersible in water- or oil baths, suitable for the use in CO₂-incubators and ovens. 3 years warranty on material and manufacturing, developed and made in Germany.

EMCLAB IMS 1 W

1 stirring position, up to 3,000 ml stirring volume, submersible up to +50 °C. On request up to +95 °C in water.

IMS 1 W	EMC-20043032
Stirring points	1
Stirring volume	1 – 3,000 ml
Speed range [rpm]	depends on controller
Stirring power (max.)	10 W
Dimension (WxDxH)	120 x 120 x 35 mm
Housing material	Stainless steel
Operation conditions	-10°C up to +50°C in air/ up to +50°C in water
Operation voltage (max.)	48 VDC
Protection category	IP 68
Weight (gross)	1.5 kg

* Please select controller

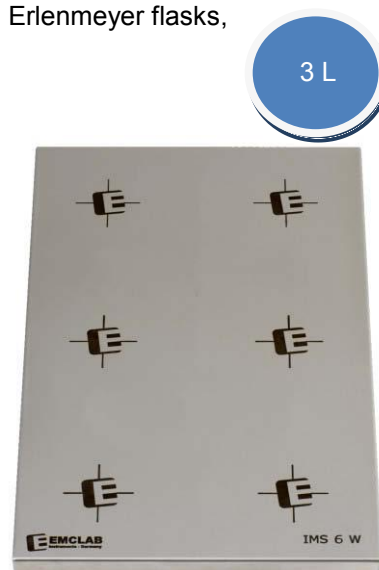


EMCLAB IMS 6 W

6 stirring positions, up to 3,000 ml stirring volume, suitable for 6 x 1000 ml Erlenmeyer flasks, submersible up to +50 °C. On request up to +95 °C in water.

IMS 6 W	EMC-20043033
Stirring points	6
Stirring volume	1 – 3,000 ml
Stirring point distance	130 mm
Speed range [rpm]	depends on controller
Stirring power (max.)	40 W
Dimension (WxDxH)	245 x 375 x 38 mm
Housing material	Stainless steel
Operation conditions	-10°C up to +50°C in air/ up to +50°C in water
Operation voltage (max.)	48 VDC
Protection category	IP 68
Weight (gross)	8.9 kg

* Please select controller



Inductive Magnetic Stirrer IMS 1 W – IMS 15 W

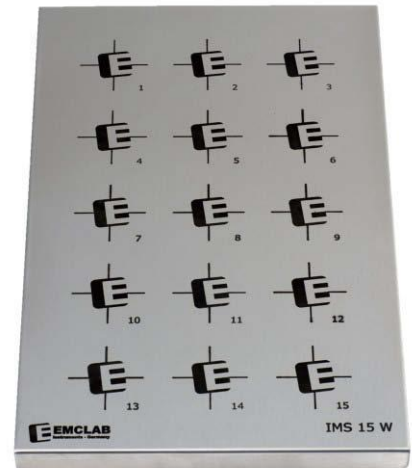
EMCLAB IMS 15 W

15 stirring positions, up to 3,000 ml stirring volume, suitable for 15 x 250 ml beakers (tall form), submersible up to +50 °C. On request up to +95 °C in water.

3 L

IMS 15 W	EMC-20043034
Stirring points	15
Stirring volume	1 – 3,000 ml
Stirring point distance	65 mm
Speed range [rpm]	depends on controller
Stirring power (max.)	40 W
Dimension (WxDxH)	245 x 375 x 38 mm
Housing material	Stainless steel
Operation conditions	-10°C up to +50°C in air/ up to +50°C in water
Operation voltage (max.)	48 VDC
Protection category	IP 68
Weight (gross)	9.5 kg

* Please select controller



EMCLAB IMS mini

Miniaturized, wear-free magnetic stirrer with 1 stirring position for cuvettes, optimized for stirring volume up to 25 ml, ideal size for system integration e.g. in photometer. Extremely robust construction and performance, easy to clean and maximum resistance, submersible up to +50 °C. Fully encapsulated and hermetically sealed stainless steel housing, IP 68, water-, dust- and germproof.

IMS mini	EMC-20043024
Stirring points	1
Stirring volume	1 – 25 ml
Stirring power (max.)	10 W
Material housing	PUR
Dimension (WxDxH)	245 x 375 x 38 mm
Operation conditions	-10°C up to +50°C in air/ up to +50°C in water
Operation voltage (max.)	48 VDC
Protection category	IP 68
Weight (gross)	0.1 kg

* Compatible with C 1 controller



Controller

EMCLAB C 1 controller

Price-optimized control unit for small medium volumes and the connection of 1 stirring drive IMS W. SoftStart for reliable catching/centering and safe accelerating of the stirring bar.

C 1 controller	EMC-20043025
Speed range	120 – 1200 rpm
Stirring power (max.)	10 W
Housing material	Plastic
Perm. operation conditions	0°C up to 40°C (at least 80 % humidity)
Electrical data	100-240 V/ 50-60 Hz/ 0.75 A
Dimension (WxDxH)	65 x 50 x 45 mm
Protection category	IP 20
Weight (gross)	0.5 kg



EMCLAB C 2 controller

Universal control unit for the connection of stirring drives IMS W. Jerk-free stirring also at low speeds, 4-step power settings for high power with regard to large and viscous stirring volumes and reduced power for the warming-free continuous operation. Clear digital display for stirrer speed- and power settings, SoftStart for reliable catching/centering and safe accelerating of the stirring bar. QuickSet for quick setting of start- and maximum speed. Automatic memory function to save the last settings, resistant stainless steel housing for easy and fast cleaning

C 2 controller	EMC-20043028
Speed range	100 – 1600 rpm
Stirring power (max.)	20 W
Power setting	4 step (25/50/75/100%)
Housing material	Stainless steel
Perm. operation conditions	0°C up to 40°C (at least 80 % humidity)
Electrical data	100-240 V/ 50-60 Hz/ 1.5 A
Dimension (WxDxH)	200 x 155 x 38 mm
Protection category	IP 20
Weight (gross)	1.4 kg



*If using controller C 2 for IMS 1 W only available for 2 or 4 IMS 1 W + plug-for-4

EMCLAB Plug-for-4

Distributor for synchronized operating of 4 stirring drives with one C 2 controller. Identical operation conditions, synchronous speeds, same stirring power, space-saving, sealed stainless steel housing

Plug-for-4	EMC-20043035
Distributor]	4-fold
Housing material	Stainless steel
Dimension (WxDxH)	48 x 48 x 25 mm



*If using controller C 2 for IMS 1 W only available for 2 or 4 IMS 1 W + plug-for-4

Workstation Configurator

EMCLAB Workstations

Complete workstation for stirring and cooling of up to 15 samples simultaneously.
The workstation can be arranged individually.

Choose the requested instruments, apply the numbers from the configurator and add them step by step to the basic article number in the table.

The picture shows:

- EMC-2044**5**211 Inductive magnetic stirrer IMS 15 W
- EMC-20444**2**11 C 2 controller
- EMC-204442**1** Water bath WB 1
- EMC-2044421**1** Thermostat MPC



EMCLAB workstation configurator

Sample	EMCLAB workstation EMC-20444211 (without accessories)			
	1	Inductive Magnetic stirrer IMS 1 W (not available for C 2 controller)		
	2	Inductive Magnetic stirrer IMS 1 W (set of 2 pcs.) for using C 2 controller		
	3	Inductive Magnetic stirrer IMS 1 W (set of 4 pcs.) for using C 2 controller		
	4	Inductive Magnetic stirrer IMS 6 W		
	5	Inductive Magnetic stirrer IMS 15 W		
		1	C 1 Controller	
		2	C 2 Controller (not available for only 1 pcs. IMS 1 W)	
		3	C 2 Controller with plug-for-4 (for set of 2 or 4 pcs. IMS 1 W)	
			1	Water bath WB 1
			2	without water bath WB 1
			1	Thermostat MPC
		2	without Thermostat MPC	
EMC-2044	5	2	1	1 Article number

	EMCLAB workstation EMC-2044_ _ _ _ (without accessories)			
	1	Inductive Magnetic stirrer IMS 1 W (not available for C 2 controller)		
	2	Inductive Magnetic stirrer IMS 1 W (set of 2 pcs. for using C 2 controller)		
	3	Inductive Magnetic stirrer IMS 1 W (set of 4 pcs. for using C 2 controller)		
	4	Inductive Magnetic stirrer IMS 6 W		
	5	Inductive Magnetic stirrer IMS 15 W		
		1	C 1 Controller	
		2	C 2 Controller (not available for only 1 pcs. IMS 1 W)	
		3	C 2 Controller with plug-for-4 (for set of 2 or 4 pcs. IMS 1 W)	
			1	Water bath WB 1
			2	without water bath WB 1
			1	Thermostat MPC
		2	without Thermostat MPC	
EMC-2044				Article number

* Accessories on page 13

Hotplate Stirrer DMSH-20D / -30D

Excellent hotplate stirrer for most general heating and stirring applications.

20 L

Features:

- Simple handling
- Fast start-up
- Ceramic coated plate – chemical and acid resistant
- High scratch prevention
- One-knob-operation with Jog Shuttle control system (simple turn & push operation)
- Storage function for the set values
- Digital LCD with back-light function
- Digital timer function incl. 99 hours / 59 min settable
- Alarm function for error status and timer-end
- Locking mode supported for experimental safety
- Encl. temperature sensor Pt 100, standrod holder and clamp



Model	DMSH-20D-Set	DMSH-30D-Set
Art. No.	EMC-20043010	EMC-20043001
Dimension of work plate	180 x 180 mm	260 x 260 mm
Work plate material	Ceramic coated	
Housing material	Powder coated Aluminum	
Stirring quantity (max.)	20	
Motor range	9 / 4 W	
Speed range	80 ~ 1500 rpm	
Speed control resolution	5 rpm	
Temperature range	25 – 380°C	
Temperature accuracy	±0.3°C at set temperature	
Temperature display resolution	0.1°C	
Temperature control resolution	0.5°C	
Heating power	600 W	1200 W
Controller	Digital Feedback Controller with Jog Shuttle Switch (turn + push)	
Display	Digital LCD	
Timer	99h 59min (continuous function included)	
Dimension (WxDxH)	206 x 307 x 99 mm	286 x 387 x 99 mm
Weight (gross)	3.3 kg	6.7 kg
Power supply	AC 230 V 1N~, 50/60 Hz	
* Without glass		

ATEX certified Stirrer

ATEX certified stirrer for ex-protected applications

The vane type, air-powered drive is a gas expansion motor. Its sliding vanes, unlike a piston motor, create a direct rotary motion. It offers a higher power density, significant weight saving and smaller size in comparison to an equivalent electric motor. The simple design makes it robust and low-maintenance.

Features:

- Suitable for the use in EX hazardous areas
- Lightweight and compact – where installation space is limited
- Resistant to cleaning agents - meets the stringent requirements of food and pharma industries
- Overload capacity to a standstill without internal damage
- Easy speed control - continuously adjustable by changing pressure or air volume (throttling)
- Dust resistant
- Heat resistant
- Vibration resistant
- Supplied with ATEX certification



PLR

PLR xx T



PLR xx GA

PLR xx T GA

PLR (Tacho) stirrer

PLR compressed air laboratory stirrer up to 25 L for the use in potentially explosive atmospheres. Optionally with tachometer.

Model	Model with tachometer	Power output W	Volume max. L	Viscosity mPas	No-load speed rpm	Load speed rpm	Load torque Nm	Torque Nm	ATEX
PLR 10	PLR 10 T	200	3	1000	18000	8200	0.2	0.3	Ex II 2GcT4
PLR 11	PLR 11 T	200	20	50000	1800	900	1.8	3.5	Ex II 2GcT5
PLR 12	PLR 12 T	200	25	70000	870	480	3.1	5.3	Ex II 2GcT5
PLR 13	PLR 13 T	200	25	150000	80	60	12.0	19.8	Ex II 2GcT5
PLR 28	PLR 28 T	200	25	100000	580	296	5.8	10.4	Ex II 2GcT5

PLR GA (Tacho) stirrer

PLR GA compressed air laboratory stirrer with exhaust air vent up to 40 L for the use in potentially explosive atmospheres. Optionally with tachometer.

Model	Model with tachometer	Power output W	Volume max. L	Viscosity mPas	No-load speed rpm	Load speed rpm	Load torque Nm	Torque Nm	ATEX
PLR 10 GA	PLR 10 T GA	200	5	1000	15000	6900	0.2	0.3	Ex II 2GcT4
PLR 11 GA	PLR 11 T GA	200	30	50000	1500	760	1.8	3.5	Ex II 2GcT5
PLR 12 GA	PLR 12 T GA	200	40	70000	850	400	3.1	5.3	Ex II 2GcT5
PLR 13 GA	PLR 13 T GA	200	40	150000	80	60	12.0	19.8	Ex II 2GcT5
PLR 28 GA	PLR 28 T GA	200	40	100000	490	250	5.8	10.4	Ex II 2GcT5

ATEX certified Stirrer



PLM 38

PLM 38 stirrer

PLM 38 series is specially designed for use in the pharmaceutical and food industry. The sealed motor housing, combined with air ducting, avoids noisy uncontrolled leaks of compressed air into the product or out into its surroundings.

Model	PLM 38/1180	PLM 38/580	PLM 38/260
Power output	380 W		
Volume (max.)	200 L	500 L	
Viscosity	10000 mPas	50000 mPas	100000 mPas
No-load speed	2360 rpm	660 rpm	295 rpm
Load speed	1180 rpm	330 rpm	139 rpm
Load torque	3 Nm	5.6 Nm	12 Nm
Torque	6.3 Nm	8.6 Nm	19 Nm
ATEX	Ex II 2GcT5		

Stirring system Mix

This novel stirring system has been conceived to mix low viscosity fluid as well as highly appreciated viscous media at low speeds. Its special design creates inherent dynamic currents to produce perfectly homogeneous mixing results in very little time. Additional components like baffles, bottom bearings, etc. are not needed.

Model	Mix 1	Mix 2	Mix 3	Mix 4	Mix 5	Mix 6	Mix 7	Mix 8
Length mm	350	350	550	850	550	550	850	850
Stirrer Ø mm	60	80	120	150	150	170	210	300
Shaft Ø mm	8	8	10	10	12	12	14	14
Material	1.4404							

Stirring system SW

This new stirring system is specially designed for the use with containers. Quite small if it needs to fit through 150 mm or 70 mm openings. Great when it comes to mixing. The stirrer unfolds and creates its novel, inherent dynamic current, even at low speeds. The entire contents of the container are put into motion in next to no time. The stirrer can be dismantled easily into its three parts without any tools.

Model	SW 1	SW 2	SW 3
Length mm	350	350	550
Stirrer Ø mm	60	80	120
Shaft Ø mm	8	8	10
Material	1.4404		



Mix



SW

Accessories

EMCLAB Stirring bar triangular

The stirring bars SB 25 and SB 40 are designed for strong stirrers and viscous media. More than 4x higher torque transmissible, unbeatable increased mixing effect in comparison to conventional stirring bars, high energetic and long-term stable magnetic field, no demagnetization effect, concave design for a minimum of bearing surface and reliable rotation, triangular shape for powerful shear force, better mixing effect at lower rotation speed.

Model	SB 25	SB 40
Art. No.	EMC-20043027	EMC-20043026
Material	PTFE (cover) SmCo (magnet)	
Shape	triangular, concave	
Dimension	Ø 14 x 25 mm	Ø 28 x 40 mm
Weight	approx. 10 g	approx. 60 g



EMCLAB Stirring bar cylindrical

Stirring bars circular, smooth and PTFE-coated for universal applications.

Model	SB 8	SB 10	SB 12
Art. No.	9197509	91987681	91989401
Material	PTFE coated		
Shape	Cylindrical, circular		
Dimension	Ø 3 x 8 mm	Ø 8 x 25 mm	Ø 8 x 40 mm
Weight	approx. 2 g	approx. 5 g	approx. 10 g



EMCLAB Stirring bar retriever

For the removal of stirring bars from aggressive liquids. Prevents loss of stirring bars.

Model	SBR 250
Art. No.	9197725
Material	PTFE coated
Dimension	Ø 8 x 250 mm
Weight	approx. 38 g



EMCLAB Stabilizing ring, suitable for Erlenmeyer flasks, etc. The weight of the ring prevents flasks from floating when placed in a water bath

Model	SR 50	SR 70
Art. No.	EMC-5660	EMC-5661
Material	18/10 steel PVC coated	
Dimension	Ø 50 mm	Ø 70 mm
Weight	207 g	340 g



* Without glass

Accessories

EMCLAB Water bath

Water bath for numerous applications - stirring – heating – cooling.
Ideal suitable for submersible stirrers IMS W with external controller. Fitting for immersion thermostats (heating - cooling). Made of transparent polycarbonate, easy to clean, chemical resistant.

Model	WB 1	WB 2
Art. No.	EMC-20043029	EMC-20043044
Material	PC transparent	PC transparent
Dimension (WxDxH)	570 x 300 x 200 mm	400 x 300 x 190 mm
Weight	7 kg	3 kg



EMCLAB Immersion thermostat

Immersion thermostat suitable for polycarbonate water bath. There is a universally usable screw clamp in the scope of delivery to be very easily mounted. The thermostat is fitted with a powerful pressure/suction pump and meets the requirements of Safety Class III (FL) for the use with flammable fluids.

Model	MPC-E
Art. No.	9699110
Temperature range	25 – 200°C
Temperature stability	±0,05°C
Heating capacity	2 kW
Pump pressure	20 l/min
Pump pressure	0.2 bar
Pump suction	17 l/min
Pump suction	0.18 bar
Temperature control mode	internal
Voltage / Frequency	AC 230 V 1~ 50/60 Hz



EMCLAB Bottle Top Dispenser Eco & Eco zerU

The reliable Eco & Eco zerU dispensers replace step by step the large volume glass instruments to safe reagents. This reduces costs and is a better alternative in terms of environmental aspects. The Eco & Eco zerU dispensers offer almost unlimited applications in general laboratory use.

Features:

- Fulfills all applicable standards and official demands
- Quick, easy and precise volume adjustment for highest reproducibility
- Fast volume adjustment with rocker switch
- Cylinder out of borosilicate glass 3.3
- Patented long life PTFE piston with PTFE-coated O-ring
- Vertical valves - **zerU dead volume**
- Safe handling
- Positive displacement plunger – no tools necessary
- Easy to dismount for cleaning
- **Completely autoclavable at 121 °C**
- Vertical valves to achieve minimum dead volume and effective cleaning
- Flexible by using different bottle adapters
- 4 Adapters for all common bottles included
- Dated batch certification
- Individual serial number
- Conformity certification and CE
- Developed and produced acc. to ISO 9001:2000



The Eco dispenser is an economic dispenser without automatic air-purging. The air or gas in the devices needs to be purged to the outside before exact dispensing. This is no problem in series applications with many dispensing.

EMCLAB Bottle Top Dispenser Eco

Article No.	Volume (ml)	Increment (ml)	Tolerances (ml)	CV (ml)	Thread size (GL)	Adapter (GL)
EMC-20054070	0.25 - 2.5	0.05	±0.012	0.002	32/33	A25, A28, A45, S40
EMC-20054071	0.5 - 5	0.10	±0.03	0.005	32/33	A25, A28, A45, S40
EMC-20054072	1 - 10	0.20	±0.06	0.010	32/33	A25, A28, A45, S40
EMC-20054073	2.5 - 25	0.50	±0.15	0.025	45	A25, A28, A32, S40
EMC-20054074	5 - 50	1.00	±0.3	0.050	45	A25, A28, A32, S40
EMC-20054075	10 - 100	2.00	±0.6	0.100	45	A25, A28, A32, S40

The new Eco zerU dispenser is equipped with an automatic air-purging system with zero dead volume.

EMCLAB Bottle Top Dispenser Eco zerU

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

EMCLAB Titration Station EMC-TS 50

Comfortable and easy to use titration station EMC-TS 50 including Digital Burette 0-50 ml and IMS 1 E inductive magnetic stirrer.

Features:

- Tolerance: 0.2% Deviation: 0.1% thread: GL45
- Resistant against most of the acids and alkalis
- Direct displacement plunger with Viton-O-ring preventing liquids from crystallizing
- Vertical valves - zero dead volume
- 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
- Simulates every dispenser digitally up to 50.0 ml
- Simulates every glass burette digitally up to 99.99 ml
- Including RS232 interface
- Memory for up to 1000 values
- Easy handling
- Burette: including 4 adapters, tubings, battery charger
- Station: including burette, inductive magnetic stirrer IMS 1 E



EMCLAB Titration Station EMC-TS 50

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

* Without glass bottle and Erlenmeyer flask

EMCLAB Pipette series A*

EMCLAB Pipettes series A - adjustable pipettes are products of intensive ergonomic and operational studies and the application of modern innovative materials. EMCLAB Pipettes are the perfect digital pipettes for demanding laboratory applications for scientists who prefer accuracy, reproducibility and ergonomic features required by users working in life sciences.

Features:

- Perfect for precise laboratory pipetting from 0.2 µl to 5000 µl
- 7 color-coded single channel models
- High accuracy and precision according DIN EN ISO 8655
- Ergonomic designed and low weight
- Robust and stable construction
- Tip ejector and piston made of stainless steel
- Fit with almost all pipette tips
- Individual calibrated with serial number
- Easy recalibration
- DE-M marked according German calibration law
- ***Completely autoclavable at 121 °C**



EMCLAB Single-Channel Pipette adjustable volume – autoclavable 121 °C

Article No.	Volume (µl)	Increment (µl)	A ±(µl) (CV≤(µl))	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 Pipettes

EMCLAB Series adjustable pipettes are product of intensive ergonomic and operational studies and the application of modern innovative materials. EMCLAB Pipettes are the perfect manual pipettes for demanding laboratory applications for scientists who prefer accuracy, reproducibility and ergonomic features required by users working in the life sciences.

Robust, one-handed operation, high precision and easy Calibration, for long lasting reliability.

Lightweight, robust, low force, ergonomic:

The piston-operated pipette EMCLAB Pipettes provides maximum versatility and optimum quality over the entire volume range.

There are 10 single-channel pipettes with adjustable volume from 0.1 µl to 5 ml and 3 different multichannel 8 and 12 channel pipettes available in the 0.5 to 300 µl volume range available.

Tip ejector, finger support and easy to adjust digital display and volume settings proof ergonomic features.



EMCLAB Single-channel Pipette adjustable volume

Article No.	Volume (µl)	Increment (µl)	A± % (CV ± %)	Tips
EMC-5720005	0.1-2.5	0.05	4.0 (2.0)	1 (crystal)
EMC-5720000	0.5-10	0.1	1.2 (0.8)	1 (crystal)
EMC-5720020	5-50	0.5	0.4 (0.4)	2 (yellow)
EMC-5720080	2-20	0.5	1.0 (0.5)	2 (yellow)
EMC-5720050	10-100	1.0	0.8 (0.3)	2 (yellow)
EMC-5720070	20-200	1.0	0.8 (0.3)	2 (yellow)
EMC-5720030	50-200	1.0	0.8 (0.3)	2 (yellow)
EMC-5720060	100-1000	5.0	0.8 (0.3)	3 (blue)
EMC-5720040	200-1000	5.0	0.8 (0.3)	3 (blue)
EMC-5720110	1000-5000	50	0.8 (0.3)	4 (clear)

EMCLAB 8-Channel Pipette adjustable volume

Article No.	Volume (µl)	Increment (µl)	A± % (CV ± %)	Tips
EMC-5720210	0.5-10	0.1	2.4 (1.6)	1 (crystal)
EMC-5720220	5-50	0.5	2.0 (0.8)	2 (yellow)
EMC-5720240	50-300	5.0	1.6 (0.6)	2 (yellow)

EMCLAB 12-Channel Pipette adjustable volume

Article No.	Volume (µl)	Increment (µl)	A± % (CV ± %)	Tips
EMC-5720310	0.5-10	0.1	2.4 (1.6)	1 (crystal)
EMC-5720320	5-50	0.5	2.0 (0.8)	2 (yellow)
EMC-5720340	50-300	5.0	1.6 (0.6)	2 (yellow)

EMCLAB Pipette Rack

Article No.	Model
EMC-57201601	Linear Rack

* Without pipettes



EMCLAB Pipette Tips

EMCLAB pipette tips are high quality tips made to fit perfect for EMCLAB pipettes. High precision and accuracy are part of high precision state of art to lead to high precision results. EMCLAB pipette tips are available bulk packed or with refill boxes also autoclavable. We only use high quality pure resins and moulds to manufacture Quality tips made in Germany.

- Made of high quality Polypropylene
- Fit to all EMCLAB pipettes
- Optimal stability
- Autoclavable
- Dustfree because of electrostatic handling
- Available in racks or bulk packed
- Excellent transparency
- High quality of accuracy of mould



EMCLAB Pipette Tips

Article No.	Model	Pack	Pcs/Pack
EMC-5721010	Multibox PC, not filled for tips up to 1000 µl	*	1
EMC-5721011	Multibox PC, not filled for tips up to 300 µl	*	1
EMC-5721012	Multibox PP, not filled for tips up to 1000 µl	*	1
EMC-5721013	Pipette tips, crystal, 0,5-20 µl	Bulk packed in bag	1000
EMC-5721014	Pipette tips, crystal, 0,5-20 µl in Multirack à 96	Multiracks 10 x 96	960
EMC-5721015	Pipette tips, crystal, 0.5-20 µl Refill pack à 96	Refill pack 10 x 96	960
EMC-5721016	Pipette tips, crystal, 0,1-10 µl	Bulk packed in bag	1000
EMC-5721017	Pipette tips, crystal, 0,1-10 µl in Multirack à 96	Multiracks 10 x 96	960
EMC-5721018	Pipette tips, crystal, 0,1-10 µl Refill pack à 96	Refill pack 10 x 96	960
EMC-5721019	Pipette tips, yellow, 1-200 µl	Bulk packed in bag	1000
EMC-5721020	Pipette tips, yellow, 1-200 µl in Multirack à 96	Multiracks 10 x 96	960
EMC-5721021	Pipette tips, yellow, 1-200 µl Refill pack à 96	Refill pack 10 x 96	960
EMC-5721022	Pipette tips, yellow, 1-250 µl	Bulk packed in bag	1000
EMC-5721023	Pipette tips, yellow, 1-250 µl in Multirack à 96	Multiracks 10 x 96	960
EMC-5721024	Pipette tips, yellow, 1-250 µl Refill pack à 96	Refill pack 10 x 96	960
EMC-5721025	Pipette tips, crystal, 1-300 µl	Bulk packed in bag	1000
EMC-5721026	Pipette tips, crystal, 1-300 µl in Multirack à 96	Multiracks 10 x 96	960
EMC-5721027	Pipette tips, crystal, 1-300 µl Refill pack à 96	Refill pack 10 x 96	960
EMC-5721028	Pipette tips, blue, 100-1000 µl	Bulk packed in bag	1000
EMC-5721029	Pipette tips, blue, 100-1000 µl in Multirack à 60	Multiracks 10 x 60	600
EMC-5721030	Pipette tips, blue, 100-1000 µl Refill pack à 60	Refill pack 10 x 60	600

*multiple autoclavable (121 °C, 20 min)



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