

EPF Electronic PEPF

Maan will launch EPF Electronic PEPF that enable fast, precise and comfortable pipetting. The EPF is available in single-channel models covering volume range of 0.5 to 5000µl and multi-channel models from 0.5 to 1200µl

Specifications

Channels	Volume Range	Increment ul	Test	Inaccuracy		Imprecision	
			Volume	ul	%	s.d.*ul	CV%*
1	0.5-10ul	0.01ul	10	±0.10	±1.0	0.05	0.5
			1	±0.035	±3.5	0.03	3.0
1	5-50ul	0.1ul	50	±0.40	±0.8	0.15	0.3
			5	±0.15	±3.0	0.125	2.5
1	30-300ul	1ul	300	±1.8	±0.6	0.6	0.2
			30	±0.9	±3.0	0.21	0.7
1	100-1000ul	1ul	1000	±6.0	±0.6	2.0	0.2
			100	±3.0	±3.0	0.6	0.6
1	1000-5000ul	-	5000	±30.0	±0.6	10.0	0.2
			1000	±15.0	±3.0	4.0	0.8
8	0.5-10ul	0.1ul	10	±0.24	±2.4	0.16	1.6
			1	±0.12	±12.0	0.08	8.0
8	5-50ul	0.1ul	50	±0.75	±1.5	0.35	0.7
			5	±0.25	±5.0	0.10	2.0
8	30-300ul	1ul	300	±3.0	±1.0	0.9	0.3
			30	±0.3	±3.0	0.1	1.0
8	100-1200ul	-	1200	±12.0	±1.0	2.4	0.2
			100	±3.0	±3.0	0.9	0.9
12	0.5-10ul	0.1ul	10	±0.24	±2.4	0.16	1.6
			1	±0.12	±12.0	0.08	8.0
12	5-50ul	0.1ul	50	±0.75	±1.5	0.35	0.7
			5	±0.25	±5.0	0.10	2.0
12	30-300ul	1ul	300	±3.0	±1.0	0.9	0.3
			30	±0.3	±3.0	0.1	1.0
12	100-1200ul	-	1200	±12.0	±1.0	2.4	0.2
			100	±3.0	±3.0	0.9	0.9



TopMF Mechanical PEPFs



Simply turn the plunger button for volume selection

Finger support with minimum user effort

Tip ejector allows convenient one-handed operation



Ejector collar and tip cone can be removed

Durable tip cone materials Provide excellent chemical resistance



Features for multi-channel TopMF

8 and 12 channel are available for
standard 96-well plate



PEPF with switch

Maan PEPFs are available to assembly with an on/off switch and cable. This can be used with coagulation analyzers or any other instruments that require precise timing.



MicroMP Mechanical PEPFs



Simply turn the plunger button for volume selection

Finger support with minimum user effort

Tip ejector allows convenient one-handed operation



Ejector collar and tip cone can be removed



Durable tip cone materials provide excellent chemical resistance

MicroMP Plus Autoclavable PEPF

Features for MicroMP plus

- Fully Autoclavable
- Lightweight, ergonomic, low force design
- Digital display clearly reads volume setting
- The pEPFs cover volume range of 0.1µl to 10ml
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Manufactured from innovative material
- Calibrated in accordance with ISO8655. Each pEPF supplied with individual test certificate



Simply turn the plunger button for volume selection
 finger support with minimum user effort

Tip ejector allows convenient one-handed operation



Tip ejector collar and tip cone can be removed

Durable tip cone materials provide excellent
 chemical resistance



Features for multi-channel MicroMP plus

- 8 and 12 channel pEPFs are available for standard 96-well plate
- Dispensing head rotates for optimum pipetting convenience
- Individual piston and tip cone assemblies allow easy repair and maintenance
- Compound material tip cone design allows visual seal verification
- Can be used with universal style pEPF tips



Specifications

TopMF/ MicroMP / MicroMP plus Mechanical PEPFs (Adjustable and Fixed Volume)

Single-channel Adjustable Volume PEPFs					
Volume Range	Test Volume	Maximum permissible systematic error (Inaccuracy)		Maximum permissible random error (Imprecision)	
		%	µl	%	µl
0.1-2.5µl	2.5µl	2.50%	0.0625	2.00%	0.05
	1.25µl	3.00%	0.0375	3.00%	0.0375
	0.25µl	12.00%	0.03	6.00%	0.015
0.5-10µl	10µl	1.00%	0.1	0.80%	0.08
	5µl	1.50%	0.075	1.50%	0.075
	1µl	2.50%	0.025	1.50%	0.015
2-20µl	20µl	0.90%	0.18	0.40%	0.08
	10µl	1.20%	0.12	1.00%	0.1
	2µl	3.00%	0.06	2.00%	0.04
5-50µl	50µl	0.60%	0.3	0.30%	0.15
	25µl	0.90%	0.225	0.60%	0.15
	5µl	2.00%	0.1	2.00%	0.1
10-100µl	100µl	0.80%	0.8	0.15%	0.15
	50µl	1.00%	0.5	0.40%	0.2
	10µl	3.00%	0.3	1.50%	0.15
20-200µl	200µl	0.60%	1.2	0.15%	0.3
	100µl	0.80%	0.8	0.30%	0.3
	20µl	3.00%	0.6	1.00%	0.2
50-200µl	200µl	0.60%	1.2	0.15%	0.3
	100µl	0.80%	0.8	0.30%	0.3
	50µl	1.00%	0.5	0.40%	0.2
100-1000µl	1000µl	0.60%	6	0.20%	2
	500µl	0.70%	3.5	0.25%	1.25
	100µl	2.00%	2	0.70%	0.7
200-1000µl	1000µl	0.60%	6	0.20%	2
	500µl	0.70%	3.5	0.25%	1.25
	200µl	0.90%	1.8	0.30%	0.6
1000-5000µl	5000µl	0.50%	25	0.15%	7.5
	2500µl	0.60%	15	0.30%	7.5
	1000µl	0.70%	7	0.30%	3
2-10ml	10ml	0.60%	60	0.20%	20
	5ml	1.20%	60	0.30%	15
	2ml	3.00%	60	0.60%	12

Specifications

TopMF/ MicroMP / MicroMP plus Mechanical PEPFs (Adjustable and Fixed Volume)

8-channel Adjustable Volume PEPFs					
Volume Range	Test Volume	Maximum permissible systematic error (Inaccuracy)		Maximum permissible random error (Imprecision)	
		%	µl	%	µl
0.5-10µl	10µl	1.50%	0.15	1.50%	0.15
	5µl	2.50%	0.125	2.50%	0.125
	1µl	4.00%	0.04	4.00%	0.04
5-50µl	50µl	1.00%	0.5	0.50%	0.25
	25µl	1.50%	0.375	1.00%	0.25
	5µl	3.00%	0.15	2.00%	0.1
50-300µl	300µl	0.70%	2.1	0.25%	0.75
	150µl	1.00%	1.5	0.50%	0.75
	50µl	1.50%	0.75	0.80%	0.4

12-channel Adjustable Volume PEPFs					
Volume Range	Test Volume	Maximum permissible systematic error (Inaccuracy)		Maximum permissible random error (Imprecision)	
		%	µl	%	µl
0.5-10µl	10µl	1.50%	0.15	1.50%	0.15
	5µl	2.50%	0.125	2.50%	0.125
	1µl	4.00%	0.04	4.00%	0.04
5-50µl	50µl	1.00%	0.5	0.50%	0.25
	25µl	1.50%	0.375	1.00%	0.25
	5µl	3.00%	0.15	2.00%	0.1
50-300µl	300µl	0.70%	2.1	0.25%	0.75
	150µl	1.00%	1.5	0.50%	0.75
	50µl	1.50%	0.75	0.80%	0.4

Fixed Volume PEPFs					
Volume Range	Test Volume	Maximum permissible systematic error (Inaccuracy)		Maximum permissible random error (Imprecision)	
		%	µl	%	µl
5µl	5µl	1.3%	0.065	1.2%	0.06
10µl	10µl	0.8%	0.08	0.8%	0.08
20µl	20µl	0.6%	0.12	0.5%	0.1
25µl	25µl	0.5%	0.125	0.3%	0.075
50µl	50µl	0.5%	0.25	0.3%	0.15
100µl	100µl	0.5%	0.5	0.3%	0.3
200µl	200µl	0.4%	0.8	0.2%	0.4
250µl	250µl	0.4%	1.0	0.2%	0.5
500µl	500µl	0.3%	1.5	0.2%	1.0
1000µl	1000µl	0.3%	3.0	0.2%	2.0
2000µl	2000µl	0.3%	6.0	0.15%	3.0
5000µl	5000µl	0.3%	15	0.15%	7.5

Ordering Information

TopMF/ MicroMP / MicroMP plus Mechanical PEPFs (Adjustable and Fixed Volume)

Single-channel Adjustable Volume PEPFs

Cat. No.			Volume Range
TopMF	MicroMP	MicroMP Plus	
71111101	71211101	71311101	0.1-2.5µl
71111104	71211104	71311104	0.5-10µl
71111106	71211105	71311105	5-50µl
71111105	71211106	71311106	2-20µl
71111108	71211108	71311108	10-100µl
71111109	71211109	71311109	20-200µl
71111111	71211111	71311111	50-200µl
71111114	71211114	71311114	100-1000µl
71111116	71211116	71311116	200-1000µl
71111117	71211117	71311117	1000-5000µl
71111133	71211133	71311133	2-10ml

8-channel Adjustable Volume PEPFs

71111204	71211204	71311204	0.5-10µl
71111206	71211206	71311206	5-50µl
71111212	71211212	71311212	50-300µl

12-channel Adjustable Volume PEPFs

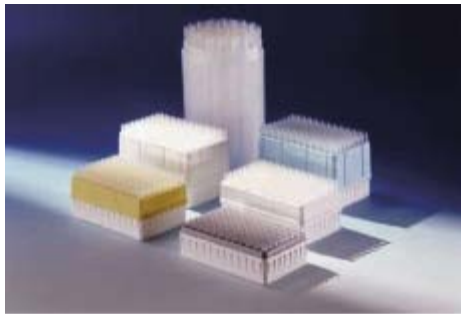
71111304	71211304	71311304	0.5-10µl
71111306	71211306	71311306	5-50µl
71111312	71211312	71311312	50-300µl

Fixed Volume PEPFs

71112118	71212118	71312118	5µl
71112119	71212119	71312119	10µl
71112120	71212120	71312120	20µl
71112121	71212121	71312121	25µl
71112122	71212122	71312122	50µl
71112123	71212123	71312123	100µl
71112124	71212124	71312124	200µl
71112125	71212125	71312125	250µl
71112126	71212126	71312126	500µl
71112127	71212127	71312127	1000µl
71112128	71212128	71312128	2000µl
71112129	71212129	71312129	5000µl



PEPF Tips



Ordering Information

PEPF Tips (Non-sterilizing packing)

Cat. No.	Descriptions
024	FT10 μ l (1pc, 1000 tips/bag)
023	FT200 μ l (1pc, 1000 tips/bag)
012	FT1000 μ l (1pc, 500 tips/bag)
025	FT5000 μ l (1pc, 100 tips/bag)

PEPF Pump

PEPF Pump easy one hand operates. Optimally located thumbwheel rotates easily for precision aspirating or dispensing. By depressing the side lever, entire contents can be dispensed rapidly.

Features

- Volume capacity 2ml, 10ml and 25ml
- Color coded by volume with green, blue and red
- Thumbwheel for precision operation
- Resistant to acids, alkalis
- Easily disassembly for cleaning

Cat. No.	Descriptions
18888	2ml, blue (blank LOGO)
28888	10ml, green (blank LOGO)
38888	25ml, red (blank LOGO)



StepFyt Stepper

Optimized for smooth dispensing of even the smallest volumes

Five easy-to-select settings control dispensing volume

By pushing the slide upwards, the syringe is filled up

The stop lever secures the syringe inserted



Features

- Lightweight and ergonomic
- One-hand operation
- Factory calibrated
- Volume range of 1µl to 5ml can be dispensed
- Maintenance free
- Equipped with durable tip insertion lever
- Works with seven sizes of disposable, polypropylene syringes from 0.5ml to 50ml



Select the Dispensing Volume

- Find the required dispensing volume
- Use the adjusting wheel to set the required volume
- Select and inserting suitable tips
- Confirm the maximum dispensing steps

Dispensing Volume

Select suitable tips

Set	1	2	3	4	5
Tips					
0.05ml	1µl	2µl	3µl	4µl	5µl
0.50 ml	10µl	20µl	30µl	40µl	50µl
1.25 ml	25µl	50µl	75µl	100µl	125µl
2.50 ml	50µl	100µl	150µl	200µl	250µl
5.00 ml	100µl	200µl	300µl	400µl	500µl
12.50 ml	250 µl	500 µl	750 µl	1000 µl	1250 µl
25.00 ml	500 µl	1000 µl	1500 µl	2000 µl	2500 µl
50.00 ml	1000 µl	2000 µl	3000 µl	4000 µl	5000 µl
Steps ml	48	23	15	11	8

PEPF Controller

Features

- Five colors optional
- Comfortable and simple to use
- Precise pipetting control
- Robust and lightweight
- 0.1-100ml volumetric or serological pEPFs can be used
- Filling and delivery are easily controlled with a small sensitive lever
- Uses integral and replaceable 3µm filter
- Easy to maintain and clean
- Autoclavable silicone pEPF holder

Compress the suction before attaching the P

Button to expel residual liquid when using blow-out pipets

Filling and delivery are easily controlled with the small sensitive lever



The 3.0µm filter and adapter can be integral and replaceable

Silicone adapter suitable for 0.1-100ml pipette

Ordering information

Cat No.	Descriptions
940100010000	Love-Blue
940100020000	Love-Red
940100030000	Love-Green
940100040000	Love-Yellow
940100050000	Love-Pink
Accessories	
Cat. No.	Descriptions
110	Filter 3.0µm, 1pc/ pk



Email : sales@maanlab.se

MLP Plus Motorized PEPF Filler



Specifications

Aspirate Speeds	8
Dispense Speeds	8 Gravity Dispense
Battery	Lithium-Ion
Battery Service Life	More than 8 Hours of Intermittence Use
Charging Time	2-3 Hours
PEPF Types	Glass or Plastic PEPF(0.1-100ml), Pasteur PEPFs
Filter	0.45 µm Hydrophobic

Ordering information

Cat. No.	Description
940200010000	Love Plus with AC adapter, spare 0.45µm filter and wall stand, Euro plug
940200020000	Love Plus c/w AC adapter, spare 0.45µm filter and wall stand, North-America plug
940200050000	Love Plus c/w AC adapter, spare 0.45µm filter and wall stand, UK plug

Accessories

Cat. No.	Descriptions
103	Filter 0.45µm,1pc each pk

MDM plus Bottle-top Dispenser

Quick and easy volume adjustment

Smooth piston design provides effortless dispensing

Closure cap protects, against reagent contact and is easy to attach and remove, even while wearing gloves



Free of adapters allow fitting to standard reagent bottles

Filling tube adjusts easily to different size bottles

Specifications

Volume Range ml	Graduation ml	A \leq ±		CV \leq	
		%	μ l	%	μ l
0.5-5	0.1	0.5	25	0.1	5
1.0-10	0.2	0.5	50	0.1	10
0.5-5	0.5	0.5	125	0.1	25
5.0-50	1.0	0.5	250	0.1	50

A = Accuracy; CV = Coefficient of variation

Ordering information

Cat. No.	Volume Range(ml)
93110001	0.5-5
93110002	1-10
93110003	2.5-25
93110004	5-50
Accessories	
Cat.No.	Description
1769	S40, Adapter, 45/40mm
17417	GL32, Adapter, 45/32mm
17418	GL38, Adapter, 45/38mm
17419	GL25, Adapter, 32/25mm
17420	GL28, Adapter, 32/28mm
17437	Reagent Bottle (Brown, 1L)
17421	Filling tube (m)
17473	Discharge tube (m)

Email : sales@maanlab.se