New Era Pump Systems, Inc.

Phone: 631-249-1392 SyringePump.com

NE-1000 Single Syringe Pump

High Pressure Syringe Pump NE-1010

Continuous Infusion
Syringe Pump System
Dual-NE-1000
Microfluidics Single
Syringe Pump
NE-1002X



NE-1000 Features:

Accepts 1 syringe from the smallest size available up to 60 ml. A 140 ml syringe can be filled up to 120 ml. NE-1000 & Dual-NE-1000 pumping rate as low as 0.73 μ L/hr with a 1 ml syringe or as high as 35.33 ml/min with a 60 ml syringe. NE-1010 pumping rate as low as 1.459 μ L/hr with a 1 ml syringe or as high as 127.2 ml/min with a 60 ml syringe. NE-1002X pumping rate as low as .008 nl/hr with a 0.5 μ l syringe or as high as 1555 μ L/min with a 60 ml syringe.

The NE-1000 Family of Syringe Pumps Features

- · Built for Automation
- Operates stand-alone or from a computer
- Infuses and withdraws
- Applications range from simple infusions to complex pumping programs
- Programmable preset protocols
- Program up to 41 pumping phases: change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer.
- RS-232 and TTL logic control interfaces

Two pumps connected with a dual cable create a Dual Pump System allowing for continuous infusion or emulsification. Network, control, and monitor up to 100 pumps with one computer. Worldwide power supplies available. Motor stall detection. Non-volatile memory of all parameters and programming. Upgradeable to the X and X2 advanced firmware versions for gradient pumping and increased program memory. Dispensing accuracy of +/-1%. Unlimited lifetime technical support. Two year warranty. Plus many, many more features!

Not For Clinical Use On Humans



5uringe Pump.camClever Pumps, Priced Right!



NE-1000 Single Syringe Pump Maximum and Minimum Flow Rates

Syringe	Syringe	Inside	Maximum	Minimum	Maximum			
Manufacturer (all names ™)	(mL)	Diameter (mm)	Rate (mL/hr)	Rate (μL/hr)	Rate (mL/min)			
(all flames "								
8-0	1	4.699	53.07	0.73	0.884			
	3 5	8.585 11.99	177.1 345.5	2.434 4.748	2.952 5.758	g		
	10	14.43	500.4	6.876	8.341			
	20	19.05	872.2	11.99	14.53	3		
	30	21.59	1120	15.4	18.67	Ñ		
	60	26.59	1699	23.35	28.32			
	1	4.69	52.86	0.727	0.881			
	3	9.65	223.8	3.076	3.73	Ÿ.		
HSW	5	12.45	372.5	5.119	6.209	Č.		
Norm-Ject	10	15.9	607.6	8.349	10.12	i)		
	20	20.05	966.2	13.28	16.1			
	30	22.9	1260	17.32	21	S.		
	50	29.2	2049	28.16	34.15			
Monoject	1	5.74	79.18	1.088	1.319			
	3	8.941	192.1	2.64	3.202			
Монојесс	6	12.7	387.6	5.326	6.46	e. V		
	12	15.72	593.9	8.161	9.899			
	20	20.12	972.9	13.37	16.21			
	35 60	23.52 26.64	1329 1705	18.27 23.44	22.15 28.42	ži V		
	140	38	3470	47.7	57.84	d.		
	1	4.7	53.09	0.73	0.884			
	3	8.95	192.5	2.646	3.208			
Terumo	5	13	406.1	5.581	6.769			
	10	15.8	600	8.244	10			
	20	20.15	975.8	13.41	16.26	jė t,		
	30	23.1	1282	17.63	21.37			
	60	29.7	2120	29.1	35.33			
	1	6.7	107.8	1.483	1.798	ž.		
Pou/ten &Graf (Glass)	2	8.91	190.8	2.622	3.18			
	3 5	9.06 11.75	197.2 331.8	2.711 4.559	3.288 5.53	7.		
	10	14.67	517.2	7.107	8.62			
	20	19.62	925.2	12.72	15.42	d.		
	30	22.69	1237	17.01	20.62	i.		
	50	26.96	1746	24.01	29.11	Ŕ		
	1	9.538	218.6	3.005	3.644	O.		
	3	9.538	218.6	3.005	3.644			
Steel	5	12.7	387.6	5.326	6.46			
Syringes	8	9.538	218.6	3.005	3.644	D P		
	20 50	19.13 28.6	879.5 1965	12.09 27.01	14.65 32.76	0.0 0.0 0.0		
	Syringe	Inside	Maximum	Minimum	Syringe	Inside	Maximum	Minimum
	Syringe (μL)	Diameter	Rate	Rate	(mL)	Diameter	Rate	Rate
		(mm)	(μL/hr)	(μL/hr)		(mm)	(μL/hr)	(μL/hr)
SGE (Glass - Gas Tight)	5 10	0.343 0.485	282.7 565.3	0.004 0.008	0.25 0.5	2.303	12.74	0.176
	25	0.485	1273	0.008	0.5	3.257 4.606	25.49 50.99	0.351 0.701
	50	1.03	2549	0.036	2.5	7.284	127.5	1.752
	100	1.457	5102	0.071	5	10.3	254.9	3.504
Hamilton Microliter	0.5	0.103	25.49	0.001	10	14.57	510.2	7.01
	1	0.146	51.23	0.001	25	23.03	1274	17.52
(Glass)	2	0.206	101.9	0.002	50	27.5	1817	24.98
	5	0.326	255.4	0.004	100	34.99	2942	40.43







Specifications

Model	Style	Stall Detection	Number of Syringes	Maximum Syringe Size
NE-1000	Stand-Alone	Yes	1	60 mL; 140 mL partially filled
NE-500	OEM	No	1	60 mL; 140 mL partially filled
NE-501	OEM	No	1	60 mL; 140 mL partially filled

Mechanical

Motor type: Step motor

Motor steps per revolution:400Motor to drive screw ratio:15/28

Drive screw pitch: 20 revolutions/"

Micro-stepping: 1/8 to 1/2 depending on motor speed

Advance per step: 0.2126116 µm to 0.8504464 µm depending on motor speed

Dimensions: 8 3/4" x 5 3/4" x 4 1/2" (IxWxH) (Non-OEM versions)

(22.86 cm x 14.605 cm x 11.43 cm)

Weight: 3.8 lbs. (1.63 kg)

Allen Wrench 3/32 Hex (Not all models)

Electrical

Power supply type: External wall adapter, power source specific

Power supply output rating: 12V DC@ 1000 mA
Power connector: 2.1 mm, center positive, DC

Voltage at power connector: 12V DC at full load Amperage: 750 mA at full load

Operational

Accuracy: Within 1% error Reproducibility: Within 0.1% error

Maximum force: 45 lbs. at minimum speed, 18 lbs. at maximum speed

Syringe inside diameter range: 0.100 to 50.00 mm

Maximum speed: 5.100464828 cm/min

Minimum speed: 0.004204478 cm/hr

Maximum pumping rate:1699 ml/hr with a 8-D 60 ml syringeMinimum pumping rate:0.73 μl/hr with a 8-D 1 ml syringe

Number of Program Phases: 41

RS-232 pump network: 100 pumps maximum

RS-232 selectable baud rates: 300,1200,2400,9600,19200

Custom Applications

For specialized and OEM applications, contact your dealer or New Era Pump Systems Inc. Custom modifications can be made to the mechanics or the firmware.

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