

Continuous Infusion/ Dual NE-1000 Syringe Pump

Description:

- Two NE-1000 Family of Pumps Syringe Pumps connected together
- The pumps are often used in dual-pump setups, possibly with check valves for continuous pumping or mixing so that one syringe dispenses while the other reloads.
- Flexibility to separate pumps for individual use.
- Additional models include: Dual NE-1010, Dual NE-4000, Dual NE-1600/1800, Dual NE-1002X



The NE-1000 Family of 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 that change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer

RS-232 and TTL logic control interfaces

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

Plus many, many more features!!!

Dispensing accuracy of +/-1%

Unlimited lifetime technical support

Two year warranty

*** Not for clinical use on humans ***

Dual Pump Plumbing Kit



Description:

- For use with our continuous infusion system or dual infusion system
- Provides a dual check valve for two syringes, withdraw will pull fluid from a reservoir and infusion will output into a separate line
- The kit is pre-assembled, all you need to do is plug in the syringes
- Each dual check valve uses 6" of 1/8" tubing to connect to a Y connector, one for reservoir and one for output; each Y-connector has 5' of tubing to make connections to your application. Two 60cc Terumo syringes are included

Individual parts are also available

Part ID: P-DKIT

NE-1000 Single Syringe Pump Maximum and Minimum Flow Rates

Mfgr.	Syringe (cc)	ID (mm)	Max Rate (ml/hr)	Min Rate (µl/hr)	Max Rate (mL/min)			
B-D	1	4.699	53.07	0.73	0.884			
	3	8.585	177.1	2.434	2.952			
	5	11.99	345.5	4.748	5.758			
	10	14.43	500.4	6.876	8.341			
	20	19.05	872.2	11.99	14.53			
	30	21.59	1120	15.4	18.67			
	60	26.59	1699	23.35	28.32			
HSW Norm-Ject	1	4.69	52.86	0.727	0.881			
	3	9.65	223.8	3.076	3.73			
	5	12.45	372.5	5.119	6.209			
	10	15.9	607.6	8.349	10.12			
	20	20.05	966.2	13.28	16.1			
	30	22.9	1260	17.32	21			
	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			
	6	12.7	387.6	5.326	6.46			
	12	15.72	593.9	8.161	9.899			
	20	20.12	972.9	13.37	16.21			
	35	23.52	1329	18.27	22.15			
	60	26.64	1705	23.44	28.42			
	140	38.00	3470	47.69	57.84			
Terumo	1	4.7	53.09	0.73	0.884			
	3	8.95	192.5	2.646	3.208			
	5	13	406.1	5.581	6.769			
	10	15.8	600	8.244	10			
	20	20.15	975.8	13.41	16.26			
	30	23.1	1282	17.63	21.37			
	60	29.7	2120	29.13	35.33			
Poulten & Graf (Glass)	1	6.7	107.8	1.483	1.798			
	2	8.91	190.8	2.622	3.18			
	3	9.06	197.2	2.711	3.288			
	5	11.75	331.8	4.559	5.53			
	10	14.67	517.2	7.107	8.62			
	20	19.62	925.2	12.72	15.42			
	30	22.69	1237	17.01	20.62			
	50	26.96	1746	24.01	29.11			
Steel Syringes	1	9.538	218.6	3.005	3.644			
	3	9.538	218.6	3.005	3.644			
	5	12.7	387.6	5.326	6.46			
	8	9.538	218.66	3.005	3.644			
	20	19.13	879.5	12.09	14.65			
	50	28.6	1965	27.01	32.76			
	Syringe (µl)	ID (mm)	Max Rate (µl/hr)	Min Rate (µl/hr)	SGE Syringe (mL)	ID (mm)	Max Rate (ml/hr)	Min Rate (µl/hr)
SGE (Glass - Gas Tight)	5	0.343	209.2	0.004	.25	2.303	9.432	0.176
	10	0.485	418.3	0.008	.5	3.257	18.86	0.351
	25	0.728	942.5	0.018	1	4.606	37.73	0.701
	50	1.03	1886	0.036	2.5	7.284	94.36	1.752
	100	1.457	3775	0.071	5	10.3	188.6	3.504
Hamilton Micro- litre (Glass)	0.5	0.103	18.86	0.001	10	14.57	377.5	7.01
	1	0.146	37.91	0.001	25	23.03	943.2	17.52
	2	0.206	75.47	0.002	50	27.5	1344	24.98
	5	0.326	189	0.004	100	34.99	2177	40.43

Specifications

Mechanical & Electrical

Syringe sizes:	Up to 60 mL (140 mL partially filled)
Number of syringes:	1
Motor type:	Step motor
Motor steps per revolution:	400
Microstepping:	1/8 to 1/2 depending on motor speed
Advance per step:	0.2126 μ M to 0.8504 μ M depending on motor speed
Motor to drive screw ratio:	15/28
Drive screw pitch:	20 revolutions/”
DC connector:	2.1 mm, center positive
Voltage at DC connector:	12V DC at full load
Amperage:	750 mA at full load
Power supply type:	Unregulated linear external wall adapter, country and power source specific
Power supply output rating:	12V DC @ 800 mA
Dimensions:	8 3/4” x 5 3/4” x 4 1/2” High (22.86 cm x 14.605 cm x 11.43 cm)
Weight:	3.6 lbs. (1.63 kg)
Allen Wrench	3/32 Hex

Operational

Maximum speed:	5.1005 cm/min
Minimum speed:	0.004205 cm/hr
Maximum pumping rate:	1699 ml/hr with a B-D 60 cc syringe
Minimum pumping rate:	0.73 μ l/hr with a B-D 1 cc syringe
Maximum force:	35 lbs. at minimum speed, 18 lbs. at maximum speed
Number of Program Phases:	41
RS-232 pump network:	100 pumps maximum
RS-232 selectable baud rates:	300, 1200, 2400, 9600, 19200
Syringe inside diameter range:	0.100 to 50.00 mm

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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