

Precision Syringe Pumps  
Peristaltic Pumps  
Syringe Heaters  
Accessories



世联博研  
BIO EXCELLENCE®

## NE-300 *Just Infusion*™ Syringe Pump



### Infuses Only!

*Just the features you want and none that you don't want to pay for!*

No withdrawal, volume target, computer interface or programmability

#### Features

- Holds big or small syringes up to 60 mL
- Pumps continuously until you stop the pump
- Change infusion rate while pumping
- Remembers previous settings on power up
- Syringe purge mode
- Power failure mode – continue pumping after reset
- Displays total volume dispensed in mL or µL
- Precise, reproducible flow rates
- Selectable infusion rates: mL/hr, µL/hr, mL/min, µL/min
- Infusion Rates: 0.73 µL/hr (1 mL syringe) to 1,500 mL/hr (60 mL syringe)

### 3 Easy Steps!

1. **Set the syringe diameter**
2. **Set the infusion rate**
3. **Start the pump**

Syringe Manufacturer (all names™)	Syringe (mL)	Inside Diameter (mm)	Maximum Rate (mL/hr)	Minimum Rate (µL/hr)	Maximum Rate (mL/min)				
B-D	1	4.699	39.27	0.73	0.654				
	3	8.585	131	2.434	2.184				
	5	11.99	255.6	4.748	4.261				
	10	14.43	370.3	6.876	6.172				
	20	19.05	645.4	11.99	10.75				
	30	21.59	829	15.4	13.81				
	60	26.59	1257	23.35	20.95				
HSW Norm-Ject	1	4.69	39.11	0.727	0.651				
	3	9.65	165.6	3.076	2.76				
	5	12.45	275.6	5.119	4.594				
	10	15.9	449.6	8.349	7.493				
	20	20.05	714.9	13.28	11.91				
	30	22.9	932.6	17.32	15.54				
	50	29.2	1516	28.16	25.27				
Monoject	1	5.74	58.59	1.088	0.976				
	3	8.941	142.1	2.64	2.369				
	6	12.7	286.8	5.326	4.78				
	12	15.72	439.4	8.161	7.324				
	20	20.12	719.9	13.37	11.99				
	35	23.52	983.8	18.27	16.39				
	60	26.64	1262	23.44	21.03				
	140	38	2568	47.69	42.8				
Terumo	1	4.7	39.28	0.73	0.654				
	3	8.95	142.4	2.646	2.374				
	5	13	300.5	5.581	5.009				
	10	15.8	443.9	8.244	7.399				
	20	20.15	722.1	13.41	12.03				
	30	23.1	949	17.63	15.81				
	60	29.7	1568	29.13	26.14				
Poulsen & Graf (Glass)	1	6.7	79.83	1.483	1.33				
	2	8.91	141.1	2.622	2.353				
	3	9.06	145.9	2.711	2.433				
	5	11.75	245.5	4.559	4.092				
	10	14.67	382.7	7.107	6.379				
	20	19.62	684.6	12.72	11.41				
	30	22.69	915.6	17.01	15.26				
	50	26.96	1292	24.01	21.54				
Steel Syringes	1	9.538	161.7	3.005	2.696				
	3	9.538	161.7	3.005	2.696				
	5	12.7	286.8	5.326	4.78				
	8	9.538	161.7	3.005	2.696				
	20	19.13	650.8	12.09	10.84				
	50	28.6	1454	27.01	24.24				
		Syringe (µL)	Inside Diameter (mm)	Maximum Rate (µL/hr)	Minimum Rate (µL/hr)	Syringe (mL)	Inside Diameter (mm)	Maximum Rate (mL/hr)	Minimum Rate (µL/hr)
SGE (gas tight)	5	0.343	209.2	0.004	0.25	2.303	9.432	0.176	
	10	0.485	418.3	0.008	0.5	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 Microliter	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 140 cc
Number of syringes:	1
Motor type:	Step motor
Motor steps per revolution:	400
Micro-stepping:	1/8 to 1/2 depending on motor speed
Advance per step:	0.2126 $\mu\text{m}$ to 0.8504 $\mu\text{m}$ depending on motor speed
Motor to drive screw ratio:	15/28
Drive screw pitch:	20 revolutions/inch
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)

## Operational

Maximum speed:	3.7742 cm/min
Minimum speed:	0.004205 cm/hr
Maximum pumping rate:	1,257 mL/hr with a B-D 60 mL syringe
Minimum pumping rate:	0.73 $\mu\text{L/hr}$ with a B-D 1 mL syringe
Maximum force:	35 lbs. at minimum speed, 18 lbs. at maximum speed
Syringe inside diameter range:	0.100 to 50.00 mm

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