

Syringe Pumps FUSION Touch Series



Quick Release Nut

쉽고 빠르게 주사기를 교환가능.
다른 사이즈의 주사기를 동시에 사용가능

Withdraw Rack (Fusion 200)

주사기 플런저를 고정하도록 설계하여 당기는 기능이 원활.
anti-siphon 기능.

Variable Force Motor

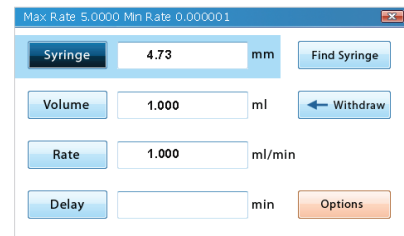
모터의 힘을 조절 가능하여 민감한 어플리케이션에 적용가능.

External Control

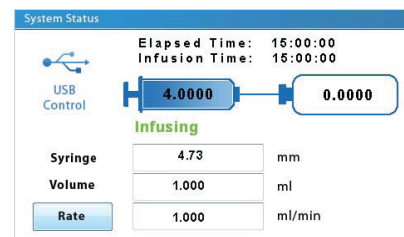
D9 RS232, USB, and TTL available
for a wide variety of external control
formats from PCs, MACs, and PLCs.

Simple and Intuitive Operation

주사기별 입력범위 표시.
초과된 범위를 입력 시 메시지로 표시.
제조사별 주사기 데이터베이스 입력.
사용자가 원하는 주사기를 검색 가능.
동작하는 동안 시스템은 stall errors를 모니터링.



Setting Mode



Operation Mode

Simple to Complex Flow Profiles

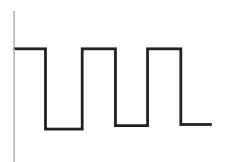
퓨전터치 시스템은 고급 프로그래밍을 지원하여 연구자에게 Ramped rate같은 넓은 범위의 흐름 옵션을 제공



Constant Rate



Ramped Rate



Rate Loops



Mixed

Compare Systems



Fusion Touch 100
Movement Mode: Infuse



Fusion Touch 200
Movement Mode: Infuse & Withdraw



Fusion Touch 400
Movement Mode: Infuse

Specifications

Fusion Touch 100

Flow Rate:
Min (10 μ l syringe): 0.0001 μ l/min
Max (60 ml syringe): 102 ml/min
Linear force: 35 lbs variable
Step Resolution: 0.098 microns

Fusion Touch 200

Flow Rate:
Min (10 μ l syringe): 0.0001 μ l/min
Max (60 ml syringe): 61 ml/min
Linear force: 50 lbs variable
Step Resolution: 0.046 microns

Fusion Touch 400

Flow Rate:
Min (0.5 μ l syringe): 2.0 pico/min
Max (10 ml syringe): 10 ml/min
Linear force: 50 lbs variable
Step Resolution: 0.016 microns

Common Specification for all Fusion Systems

Input Power: 100-240 V_{AC}: 50/60 Hz

Height: 4.5 inches (114mm)
Width: 9.5 inches (241mm)
Depth: 6.5 inches (165mm)
Weight: 7 pounds (3kg)

Screen: 4.3 inch touch wide screen LCD
Ports: USB 2.0, RS232, TTL
USB drivers available for: Windows XP, Vista, 7, Mac OS X V10 and later, Linux: Call for drivers and support

CE, UL, CSA, RoHS, FCC compliant

Operation Temperature: 4°C to 40°C
Storage Temperature: -10°C to 70°C

What The System is Designed For

Fusion Touch 100

ESI / Mass Spec calibration
Fixed volume small reactor dosing
Drug & nutrition dosing
Electrospinning

Fusion Touch 200

ESI / Mass Spec calibration
Fixed volume small reactor dosing
Drug & nutrition dosing
Electrospinning
Sampling (withdraw)
Microfluidics

Fusion Touch 400

Microfluidics
Microdialysis
Microreactors
LC post column dosing



Fusion 200 Touch



Nexus3000



Nexus6000

All Products Specifications

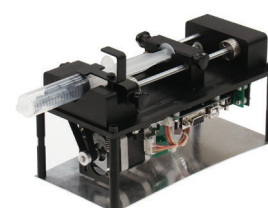
Model	Mode	Syringe Channel / Volume	Min. flow rate	Max. flow rate	Linear Force	Accuracy	Reproducibility	RS232	TTL	USB	Program
Fusion100 Touch	Infusion	2 10µl~60ml	0.0001µl/min (10µl)	102ml/min (60ml)	35 lbs (15.8kg)	±0.35%	±0.05%	●	●	●	●
Fusion200 Touch	Infusion/Withdraw	2 0.5µl~60ml	0.0001µl/min (10µl)	61 ml/min (60ml)	50 lbs (22kg)	±0.35%	±0.05%	●	●	●	●
Fusion200 Touch Multi	Infusion/Withdraw	10 0.5µl~10ml	0.001µl/hr (10µl)	15ml/min (10ml)	50 lbs (22kg)	±<1%	±0.1%	●	●	●	●
Fusion400 Touch	Infusion	4 0.5µl~10ml	2.0pico/min (0.5µl)	10ml/min (10ml)	50 lbs (22kg)	±0.35%	±0.05%	●	●	●	●
NanoJet	Infusion/Withdraw	1-4 0.5µl~1ml	0.001µl/min (0.5µl)	1ml/min (1ml)	10 lbs (4.5kg)	±0.5%	±0.05%	●	×	×	×
Nexus3000	Infusion/Withdraw	2 0.5µl~140ml	1.56pico/min (0.5µl)	300ml/min (140ml)	65 lbs (29kg)	±0.35%	±0.05%	●	●	●	●
Nexus3000 Multi	Infusion/Withdraw	2-10 0.5µl~60ml	12pico/min (0.5µl)	83.8ml/min (60ml)	65 lbs (29kg)	±0.35%	±0.05%	●	●	●	●
Nexus3000 Push-Pull	Continual	4 0.5µl~140ml	10pico/min (0.5µl)	300ml/min (140ml)	65 lbs (29kg)	±0.35%	±0.05%	●	●	●	●
Nexus6000	Infusion/Withdraw	1 0.5µl~200ml	0.0001µl/min (0.5µl)	200ml/min (200ml)	500 lbs (220kg)	±0.35%	±0.05%	●	●	●	●
Fusion ONE	Infusion	1 1ml~60ml	0.1ml/min (1ml)	40ml/min (60ml)	15 lbs (6.8kg)	±<1%	±<1%	●	●	●	●
OEM Module	Infusion/Withdraw	2 10µl~60ml	0.0001µl/min (10µl)	60ml/min (60ml)	30 lbs (13.6kg)	±0.35%	±0.05%	●	●	●	●



Nano Jet



Fusion One



OEM Module