

FUSION 100

PRODUCT
NOTE

FUSION 100

Cost Effective & Easy-to-Use Syringe Pump

Designed for operational ease

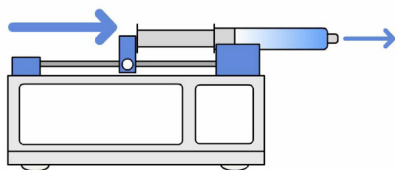
The Fusion 100 syringe pump from Chemyx is an easy-to-use syringe pump designed for delivering accurate fluid flows in the $\mu\text{l}/\text{min}$ range. Fusion 100 gives full control of fluid flows in your CellDirector® products. What sets the Fusion 100 apart from other syringe pumps is its user-friendly interface, wide flow range and high sensitivity. All combined with the lowest ownership costs.

Full control of fluid flows in your CellDirector®

CellDirector products are designed to be run using an external syringe pump holding two syringes. The Fusion 100 syringe pump from Chemyx is a high quality infusion pump meeting all criteria required for operation of advanced microfluidic systems, as it provides high flow accuracy and reproducibility at low flow rates. Fusion 100 is pre-programmed for use together with most commercially available syringes, including the syringes provided in the CellDirector product kits.

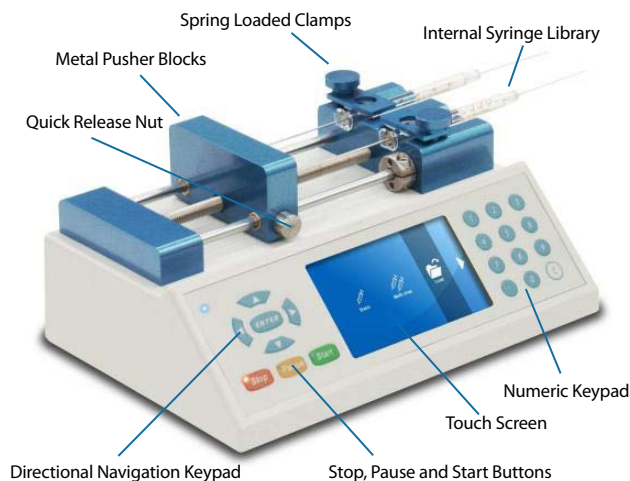
How the syringe pump works

The syringe pump is driven via a stepping motor that drives a lead screw and a pusher block. The resulting action ejects fluid from the barrels of the syringes.



The touch screen and keypad interface

A large and bright touch screen shows flow rate and fluid volume consumed over time. Settings for different syringe types are pre-programmed and easily selected by the user. Parameter input as well as multistep programming can be done via the touch screen or the keypad.



Features

- » 4.3-inch widescreen touch display
- » Screen displays ejected volume, time and infusion progress
- » The flow rate can be easily adjusted while pump is running
- » Features a pre-programmed syringe setting library
- » Easy to operate – spring loaded clamps and intuitive user interface
- » Cost effective

What is included

- » Syringe pump (115/230 VAC)
- » Manual
- » PC pump controller software
- » 1.8 m cord with grounded plug

Characteristics

| | |
|--------------------------|-----------------------|
| # of syringes | Two |
| Compatible syringe sizes | 0.5 µl to 60 ml |
| Pump dimensions | 17 x 24 x 11 cm |
| Weight | 3 kg |
| Linear force | 13.2 kg |
| Accuracy/Reproducibility | ± < 0.35 %, ± < 0.05% |
| Min flow rate | 0.0001 µl/min |
| Max flow rate | 102 ml/min |
| Step resolution | 0.098 µm/step |
| Catalogue # | REF 90-001 |