



## FUSION 100

PRODUCT  
NOTE

### FUSION 100

#### Cost Effective & Easy-to-Use Syringe Pump

Designed for operational ease

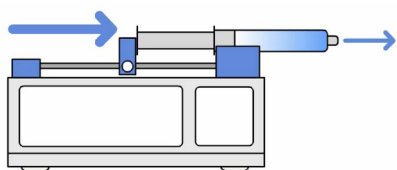
The Fusion 100 syringe pump from Chemyx is an easy-to-use syringe pump designed for delivering accurate fluid flows in the  $\mu\text{l}/\text{min}$  range. Fusion 100 gives full control of fluid flows in your CellDirector® products. What sets the Fusion 100 apart from other syringe pumps is its user-friendly 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.

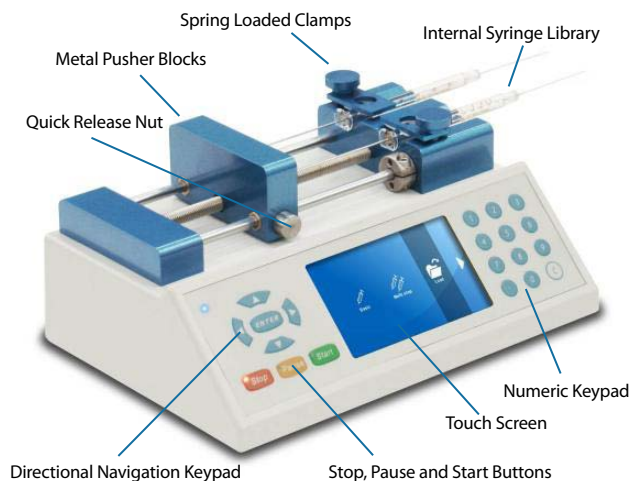
### How the syringe pump works

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