CorSolutions



Technology to Simplify Microfluidics

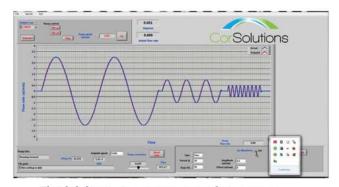
The PeriWave Microfluidic Pump

Fluid delivery for microfluidics demands special attention. The PeriWave is a high-precision, closed-loop, programmable, pulse-free pump that will help make your microfluidic application a success.

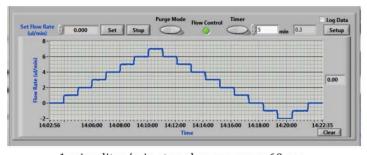
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A New Age of Fluid Delivery Pumps

The PeriWave offers superior flow control, response and performance.



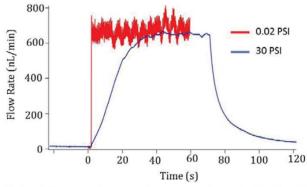
Fluid delivery in a programmed sine wave.



1 microliter/min step changes every 60 sec.

Syringe Pumps Compromise Performance

Syringe pumps are the most widely used means of fluid delivery for microfluidics. However these pumps suffer from drawbacks that severly compromise performance and can negatively impact your microfluidic application. These drawbacks include: pulsation, slow response time, refilling of syringes is required, increased chance of air bubble introduction during syringe refill, and backpressure variations significantly effect performance.



Fluid delivery using a syringe pump is undesirable. If backpressure is increased, the pulsation is reduced, but then the response time increases.

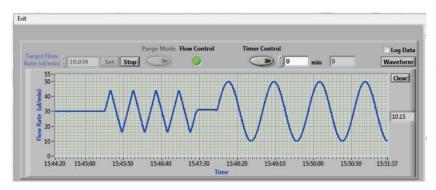
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PeriWaves offer superior performance over pneumatic and syringe-based pumps. The PeriWave is a peristaltic-based pump with an integrated, in-line flow sensor. This flow sensor which measures the actual flow rate being delivered, allows for highly accurate flow control with nanoliter resolution. Additionally the pump offers programmable fluid delivery, and with its excellent precision, it can generate complex flow profile waveforms, such as that of a pumping heart. Furthermore the pump is pulse-free and can operate in both positive and negative flow modes, permitting a user to reverse flow direction. It is a closed-loop pump, allowing for users to conserve precious fluids. Two or more PeriWaves can be connected with a tee, and used together in concert. This allows for multiple fluid streams to be accurately manipulated simultaneously. This pump has a maximum operating pressure of 30 psi, is calibrated for acqueous solutions, and comes in three models to accommodate various flow rates.

PeriWave Advantages

- Precise, accurate flow rate control
- Nanoliter resolution
- Pulse-free
- Superior performance to syringe pumps and traditional peristaltic pumps
- Forward and reverse flow modes
- Fast response
- Unlimited fluid reservoir volume
- Ability to recycle precious fluids
- Programmable fluid delivery controlled with user-friendly software
- Ability to multiplex two or more pumps



PeriWaves come with user-friendly stand-alone or Lab View VI software. This software allows for programmable fluid delivery. A flow rate of 0 nL/min can also be programmed, allowing the user to stop the flow when desired.

Corsolutions

Two PeriWaves pumps connected via a tee fitting allowing for accurate delivery of two fluid streams.

※上記製品仕様及びカタログ内は予告無く変更される場合があります。詳しくは、お問い合わせください。

Models Offered

PeriWave Nano

PeriWave Micro

PeriWave Milli

PeriWave Milli +5

20-7000 nanoliters/min

0.1-50 microliters/min

30-1000 microliters/min

0.2-5.0 milliliters/min

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※価格についてはお問い合わせください