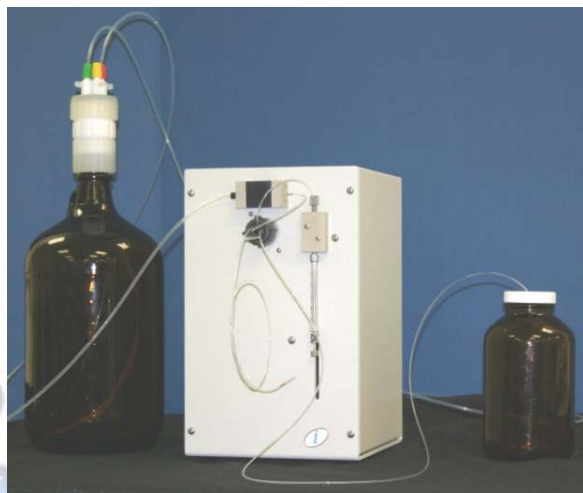


Nanofill™ 1

www.innovadyne.com

innovadyne
Technologies, Inc.

leading the way in high-precision dispensing



Dispensing 100 nL to 10 µL

Innovadyne Technologies, Inc. offers the **Nanofill™ 1** as a single-channel solution for non-contact, low-volume dispense. This benchtop instrument is designed for integration into your current liquid handler by mounting directly to its stage. With a dispense range of 100 nL through 10 µL and high precision, the **Nanofill™ 1** offers an economical solution for transfers of expensive or scarce reagents. The system incorporates Innovadyne's proprietary isolated-solenoid non-contact dispense architecture, found in Innovadyne's larger systems, separating the sample aspiration path from the solenoid actuator. This separation significantly reduces maintenance as the sample or reagent is never in contact with any moving parts. Applications such as protein crystallography, assay miniaturization, PCR reaction setup, and diagnostic test kit production can all benefit from the addition of a **Nanofill™ 1** component. The device comes equipped with an ActiveX control for easy integration into your application.

Features

- Non-contact and contact dispense
- Exceptional dynamic range (nanoliter to milliliter)
- Aspirate and dispense capability
- Sample transfer and bulk reagent dispense
- Simple fluid path with no moving parts
- FEP, SS, sapphire wetted parts compatible with commonly used solvents
- Easy to integrate
- Simple cleaning and maintenance procedures

Applications

HTS

- Assay miniaturization/method development
- Sample transfer
- Reagent addition

Cell-based Assays

- Cell dosing

Protein Crystallography

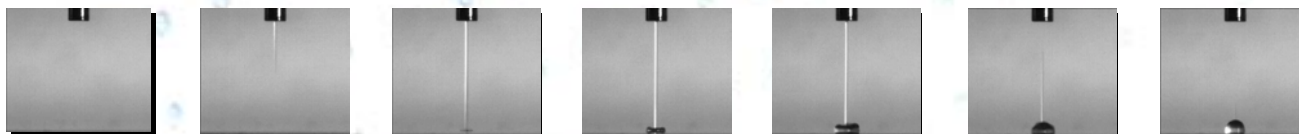
- Protein additions
- Coarse and fine screen creation

PCR

- Cocktail additions
- Template additions

Diagnostics

- Test kit production
- Arrays

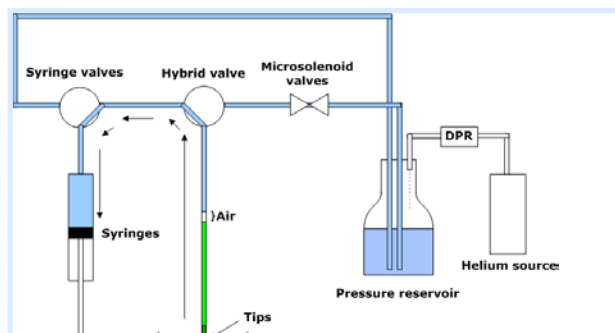


High-speed photography of Nanofill 1 dispensing 500 nL

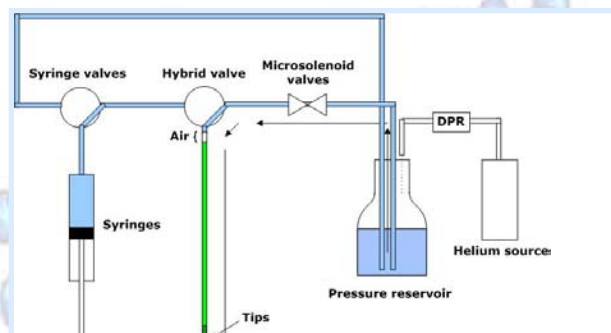
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Nanofill™ 1 Specifications

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System Schematic - Aspirate



System Schematic - Dispense

Performance Specifications

Aspiration Range	0.1 - 250 μL
Dispensing Range	0.1 - 10 μL
Dispensing Precision	CV \leq 10% at 100 nL CV \leq 5% at 250 nL - 2.5 μL
Dispensing Accuracy	\pm 7% at 100 nL \pm 5% at 250 nL - 2.5 μL
Dead Volume	3 μL at 1 μL dispensed across 96-well plate
Syringe Capacity	500 μL

Technical Specifications

Dimension	Nanofill™ 1
Height	30.8 cm (12.1 in)
Width	19.1 cm (7.5 in)
Depth	24.2 cm (9.4 in)
Weight	4.1 kg (9.0 lb)

Environmental	15 to 40°C, 95% RH
System Gas	Standard grade helium (99.7% pure)
Dispense Tips	304 SS, sapphire
Interface	RS-232

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