Fluent Liquid Handler

About
The Fluent Liquid Hander is a state-of-the-art automated liquid handler designed to streamline workflows, optimize assay precision, ensure consistency, and free staff up for more valuable tasks. It has exceptional liquid level detection and dead volume reduction to conserve samples and reagents, as well as fantastic low-volume pipetting. The customizable modular system known as the Patented Dynamic Deck™ is equipped with a **Q-Instrument BioShake**, **Tecan Hydrospeed**, **Tecan Tevacs**, and **GFPickolo Colony Picker**. It is controlled with **FluentControl**, a user-friendly software with a drag-and-drop interface to create programs that are executed at a push of a button. There is real-time monitoring to see progress, as well as error-notifications.

Instruments on the Deck

Q-Instrument BioShake

About
The BioShake Q1 is the most effective thermoshaker for 48/96/384 well microplates. It has fully adjustable temperature and mixing between -20ºC and 99.9ºC and from 200 rpm to 3,000 rmp respectively. The temperature accuracy is better than ±0.2°C with surface uniformity better than ±1.0°C, It has a patented locking mechanism ensuring safe and effective mixing even at the highest frequencies.

User Notes

- When programming the BioShake using FluentControl ensure to clamp the plate before shaking and unclamp the plate after shaking

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Tecan HydroSpeed

About
The HydroSpeed plate washer is designed for fast, parallel washing of 96 well plates. This avoids time delays between different wells for uniform results. The settings are adjustable including the wash head positions, speed settings, and vacuum level. It is especially useful for cell washing, bead assays, and ELISA assays.

User Notes
Before use: make sure to check that the waste is empty
After use: make sure to empty waste by:

1. Removing the waste bin on the low shelf of the table from the tubing
2. Bleach the contents of the bin
3. Dispose of bleached contents as appropriate for the respective contents
4. Rinse the waste bin
5. Put the waste bin back on the shelf and reattach to the tubing

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Tecan Vacuum Separator (Te-VacS)

About
Integrated with the Fluent, the Te-VacS is used for automatic rapid separation or purification of biological molecules. It can be used for all nucleic acid purification applications such as:

- extraction of plasmid DNA
- purification of PCR products and cycle sequencing products
- purification of genomic DNA from blood, body fluids, cells, tissue, micro-organisms, or plants

Its use is not limited to nucleic acid processing.

User Notes

GFPickolo Colony Picker

About
The Pickolo is a fully automated microbial colony picker. It uses a camera and a program that allows finding, filtering, and sorting colonies based on size, shape, color, isolation distance, and circularity. It works with petri dishes, multiwell plates, and omnitrays. It also has several picking modes such as scooping, scratching, and multihit, utilizing agar height detection. Inside the Fluent, once the colonies are picked, they can be automatically transferred to a multiwell plate for further experimentation.

User Notes

FluentControl Software

About

FluentControl is used to program the **Fluent Liquid Handler**. It is easy-to-use, drag-and-drop software that does not require any programming expertise. A 3D editor is to configure the worktable. It has a built-in auto-context check feature to review methods as they are created, and there is even a 3D simulator to check a finalized method before actually running it. Protocols can be saved for repeated use.

User Notes
Make sure to **save** your work!

Referece Documentation

Fluent

fluentoperatingmanual.pdf

fluentreferencemanual.pdf

fluentliquidhandler-guide.pdf

BioShake

bioshakeoperatingmanual.pdf

bioshakeproductsheet.pdf

HydroSpeed

tecanhydrospeed_user_manual.pdf

Te-VacS

tevacsoperatingmanual.pdf

Pickolo

FluentControl

fluentcontrol_3.6_manual.pdf

fluentcontrolbrochure.pdf