

VIAL FILLER STERILE MICRO VOLUME

AUTOMATED HIGH PRECISION FILLING OF VIAL BATCHES IN STERILE CONDITIONS

INTRODUCTION.

Are you looking for a solution for precise and reliable small volume vial filling for your production line that only requires attention of the operators twice a day? Dealing with volumes between 100 μ l and 2 ml, need full data tracking? This filler unit may offer a quick solution to your needs.

AUTOMATED REAGENT FILLER

Nucomat has engineered a compact and flexible **automated platform for unattended vial dispensing** provided inside a safety enclosure. This unit is ready for installation and just requires your input settings and a user training to get you going with accurately filling batches of research grade reagents and kit solutions in screwcap vials.



Front view of the filler unit.

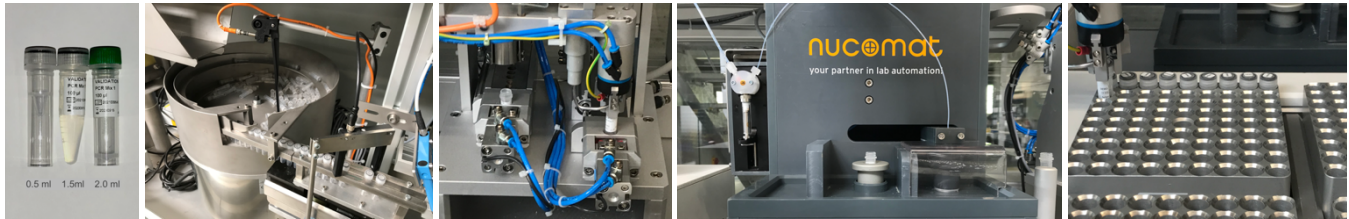
YOUR BENEFITS

- **Throughput:** 80 vials/h, up to 1600 vials/day.
- **Traceable** and repeatable hands-off 24/7 reliable operation.
- **Stand-alone** workflow with data integration possibility.
- **Compact** 1.0 x 2.3 m cabinet, 2.4m high, ready for installation, 0.5 x 0.5 m floor mounted cooler.

DISPENSER FEATURES:

- **Dispensing** with 1ml high precision Hamilton syringe, accuracy 10 μ l, precision 0.5 μ l.
- **Gravimetric** control of dispensed mass at 1 mg resolution.
- **Sterile:** HEPA filtered laminar flow.
- **Capacity:** up to 810 vials per load (10 output racks of 9x9 vials)
- **Cooling:** Output vial rack and reagent source cooling to +2°C.

- **Dual Labeling, on vial and cap:**
 - Vial label: Vial Id, manufacturer logo, volume, lot nr., expiry date, storage temperature, etc.
 - Cap label with vial Id.
 - Content and layout can be configured to meet your requirements.
- **Input flasks** 15ml, 50ml, 250ml and 500ml, **Output vials:** Nalgene screw cap 0.5 ml to 2 ml.
- **Space saving** overhead Cartesian robotics with **Reproducible** operation, built to last.
- **Bulk vial feeder** with funnel load from front panel.
- **Operator safety:** Safety lock, with interrupt on unauthorized opening.
- **Minimal energy requirement:** 120-230 V 10 Amp, compressed air 4-6 bar <64 L/min, LAN connection.



Vial formats

Vial feeder

Dual decapper

Balance controlled dispenser

Cooled output rack



Front output rack view, with the cartesian vial gripper positioned left in front of the dispenser unit. Label printers on the right.

CENTRAL WEB BASED SOFTWARE

- **ROBIN:** Nucomat's proprietary **real-time event-driven scheduling** software for process control
- **Web interface** for local and remote operation: run samples • oversee the processes • edit protocol parameters • error handling, smart retry, run recovery.
- **Sample Database** • sample **tracking** with gravimetric dispense control logging • **event logging** • data import, export and reporting, integrated data management compatible.

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