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HamiltonBuhl 201930

Hamilton 201930 1725 Terasaki Dispenser User Manual

Model: 201930

PRODUCT OVERVIEW

The Hamilton 201930 1725 Terasaki Dispenser is a specialized multi-syringe instrument designed for precise liquid handling in laboratory settings. It is engineered to dispense six equal volumes simultaneously, making it ideal for applications such as filling Terasaki plates.

This dispenser accommodates six 1700RN series Gastight syringes, providing a consistent dispense volume of 5 microliters per dispense, with a total capacity of 250 microliters per syringe.

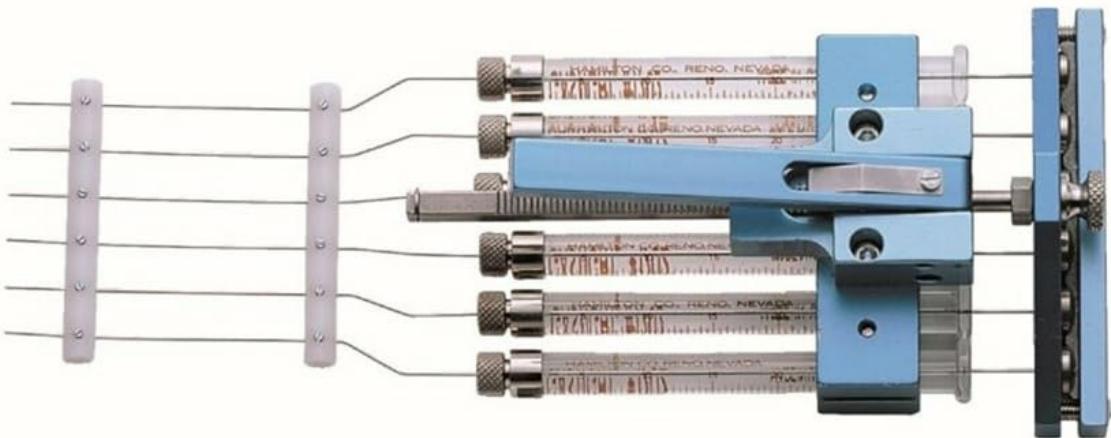


Image: The Hamilton 201930 1725 Terasaki Dispenser, showing the main blue body with six attached syringes and their dispensing needles extending to the left, ready for use.

SETUP INSTRUCTIONS

- 1. Unpacking:** Carefully remove the dispenser and all components from the packaging. Inspect for any visible damage.
- 2. Syringe Installation:** Insert six 1700RN series Gastight syringes into the designated slots on the dispenser. Ensure they are securely seated. The plungers should align with the dispensing mechanism.
- 3. Needle Attachment:** Attach appropriate dispensing needles to the luer lock or threaded syringe tips. Ensure a tight, leak-free connection.
- 4. Priming:** Before first use, prime each syringe by drawing and expelling the intended liquid several times to remove any air bubbles and ensure consistent flow.
- 5. Calibration (if necessary):** For critical applications, verify the dispensed volume using a calibrated balance or other suitable method. Adjust as needed according to laboratory protocols.

OPERATING INSTRUCTIONS

The Hamilton 201930 dispenser is designed for simultaneous, precise dispensing of 5 microliter volumes from each of its six syringes.

- 1. Load Syringes:** Ensure each of the six 1700RN series Gastight syringes is filled with the desired liquid, up to its 250 microliter capacity. Avoid overfilling.
- 2. Positioning:** Position the dispenser over the target wells, such as a Terasaki plate. Ensure the dispensing needles are correctly aligned with the wells to prevent spillage.
- 3. Dispense:** Actuate the dispensing mechanism. This will simultaneously depress the plungers of all six syringes, delivering 5 microliters from each. The mechanism is designed for consistent, equal volume dispensing across all channels.
- 4. Repeat:** If multiple dispenses are required into the same wells or new wells, reposition the dispenser and repeat the dispense action.
- 5. Refilling:** When syringes are depleted, refill them as needed, ensuring proper priming before resuming dispensing.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Hamilton 201930 Terasaki Dispenser.

- Cleaning:** After each use, especially when handling biological or corrosive liquids, thoroughly clean the syringes and needles according to standard laboratory decontamination procedures. The dispenser body can be wiped with a damp cloth and mild detergent. Avoid immersing the main dispenser mechanism in liquid.
- Syringe Care:** Regularly inspect the 1700RN series Gastight syringes for wear, cracks, or plunger stickiness. Replace damaged syringes promptly to maintain dispensing accuracy.
- Storage:** Store the dispenser in a clean, dry environment, away from direct sunlight and extreme temperatures. It is recommended to store it with syringes removed or in a clean, empty state.
- Lubrication:** Periodically check the smooth operation of the dispensing mechanism. If any resistance is felt, consult the manufacturer's guidelines for appropriate lubrication, if applicable.

TROUBLESHOOTING

This section addresses common issues you might encounter with your dispenser.

- Inconsistent Dispense Volumes:**
 - Check for air bubbles in the syringes. Re-prime thoroughly.
 - Ensure syringes are properly seated and not leaking.
 - Inspect syringe plungers and barrels for damage or wear. Replace if necessary.
 - Verify the liquid viscosity is suitable for the syringe type.
- Liquid Leaking from Syringe/Needle Connection:**
 - Tighten needle connections.
 - Inspect luer lock or threaded connections for damage.
 - Ensure correct needle type is used for the syringe.
- Mechanism Sticking/Resistance:**
 - Ensure syringes are clean and plungers move freely.
 - Check for any debris obstructing the mechanism.

- Consult manufacturer for lubrication recommendations if needed.

SPECIFICATIONS

| Feature | Detail |
|------------------------------|---|
| Model Number | 201930 |
| Dispense Volume | 5 microliters per dispense (per syringe) |
| Capacity | 250 microliters (per syringe) |
| Number of Syringes | Six (for 1700RN series Gastight syringes) |
| Simultaneous Dispense | Yes, six equal volumes simultaneously |
| Application | Designed for filling Terasaki plates |
| Package Dimensions | 3.94 x 3.94 x 3.94 inches |
| Item Weight | 10.58 ounces |
| Manufacturer | Thomas Scientific |
| Date First Available | January 16, 2015 |

WARRANTY AND SUPPORT

For specific warranty information regarding your Hamilton 201930 1725 Terasaki Dispenser, please refer to the documentation provided at the time of purchase or contact the manufacturer, Thomas Scientific, directly. Warranty terms typically cover defects in materials and workmanship for a specified period.

For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact the manufacturer or your authorized distributor. Ensure you have your model number (201930) and purchase details available when seeking support.

Manufacturer Contact (General Information): [Hamilton Company Official Website](#)