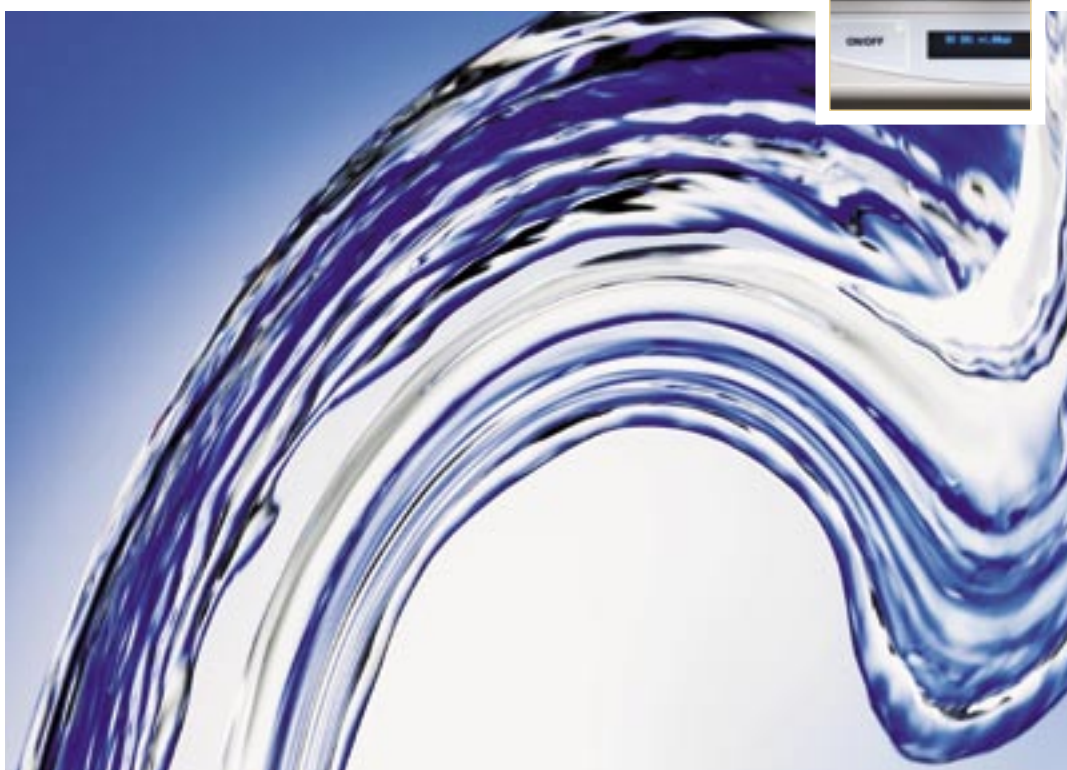


GX-281

Liquid Handler



GX-281 Liquid Handler

The next generation in front-end LC automation

The innovative design of our GX-281 Liquid Handler brings unmatched versatility and performance to front-end automation for your laboratory. Specifically engineered for your semipreparative-to-preparative HPLC requirements, the GX-281 provides the optimal in:

- Increased sample capacity in a smaller footprint
- Larger dynamic dispensing and flow rate range
- Automated off-bed direct access to multiple solvents
- Increased tube height capability
- Largest integrated preparative sample injection capacity
- Flexible direct-inject and portless injection modules
- Rack scanning for pre-run verification
- Enhanced rinsing capabilities

and much more, with the same durability and dependability you've come to expect from Gilson.



Configure Gilson instruments to your application

Like the other Gilson instruments you've come to depend on, the GX-281 is engineered to easily integrate with a variety of pump, injector, detector and fraction collection options to meet the needs of your specific application. From a "simple" semipreparative system with a single pump to the most advanced multipump, multifraction collector, multicolumn systems, the GX-281 is the solution to fit your application.

Complete, easy-to-use software control

Unleash the power of the GX-281 with complete control through Gilson's TRILUTION™ LC Software. TRILUTION LC gives you complete control over every aspect of the GX-281 while simplifying system, task and method setup. The advanced fraction collection capabilities of TRILUTION, when matched with the incredible hardware of the GX-281, provide the ultimate in injection, fraction collection and re-injection for your HPLC needs.

608-836-1551 • 800-445-7661 • www.gilson.com



Innovative GX Prep Solvent System with integrated pump and selection valve



New Z-injection and Direct Inject technologies



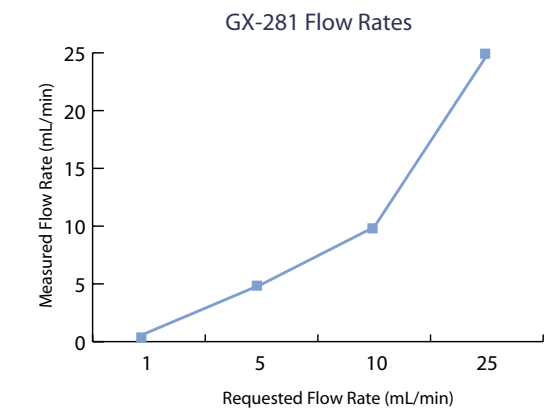
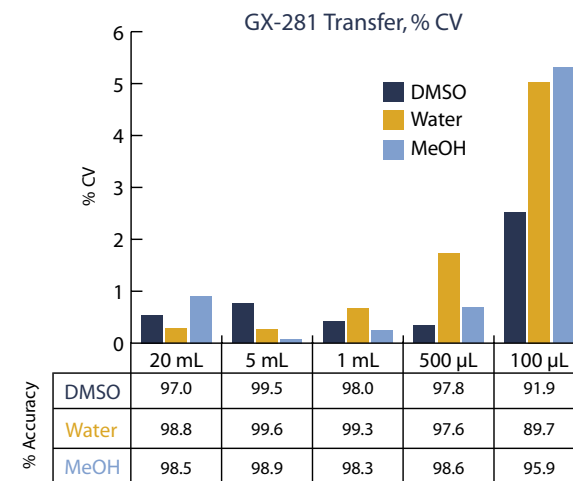
Inject, collect fractions and re-inject on the same bed.

Features

- Revolutionary new GX Prep Solvent System with integrated solvent selection for off-bed access to multiple solvents.
- Virtually maintenance-free precision dispensing.
- Multiple injection valves (direct inject and portless Z-inject valves) all with continuous flow path design facilitates high flow rate switching.
- GX Direct Injection Module features an injection port that is integrated into the valve; the GX Z-injection Module aspirates the sample directly into the valve without an injection port.
- Enhanced bed capacity over other similar liquid handlers—uses only 35" of linear bench space.
- Two unique and separate injection and fraction collection pathways.
- New rinse pump includes new and innovative "jet wash" rinse stations and a user-controllable, high-flow rinse pump.

Benefits

- No syringes to replace or change to accommodate different volumes and flow rates; allows for immediate access to up to 5 solvents and provides a large dynamic volume and flow rate range.
- Precision dispensing with no need to change out or replace syringes for different flow rates or dispensing ranges. Eliminates the maintenance issues commonly associated with syringes and their limitations.
- Allows system flows, up to 200 mL/min, to continue even as the injection valve switches from load to inject, ensuring a more consistent pressure and flow.
- Removes a source of potential carryover; reduces rinsing times, sample waste and X/Y travel for quicker injection cycle times.
- Holds up to six Code 200-Series racks (up to 576 13-mm test tubes on bed) in an extremely efficient and open bed design.
- Ensures that fractions are never contaminated from the injection process and reduces injection cycle times by minimizing the need for multiple rinses.
- Provides fast and efficient probe cleaning via jet rinse or static rinse with up to 6 rinse stations and 6 rinse solvents.



Liquid Handling[†]	Accuracy: $\pm 2\%$ for (100 μL –25 mL) water Reproducibility: $< 2\%$ [†] Contact Gilson Customer Service to learn what methods and conditions were used to obtain the values.
Injection[†]	Reproducibility: $< 1.0\%$ CV (total loop injection), $< 3.5\%$ (partial loop injection) Carryover: $< 0.005\%$ [†] Contact Gilson Customer Service to learn what methods and conditions were used to obtain the values.
Reservoir Solvents	Up to 5
Rinse Solvents	Up to 6
Rinse Speed	High: 200 rpm Low: 120 rpm
Sampler Type	X/Y/Z with stationary rack design
Bed Capacity	Holds up to six Code 200-Series racks <ul style="list-style-type: none"> • Quantity 576 of 13 mm test tubes • Quantity 450 of 16 mm test tubes • Quantity 420 of 18 mm test tubes • Quantity 180 of 25 mm test tubes • Quantity 62 of 25 or 50 mL scintillation vials
Fraction Collector 3-way Valve	3-port, PTFE, 114 μL internal volume, 10 μL dead volume, up to 200 mL/min
Solvent Delivery Dynamic Range*	2 μL to > 100 mL *For volumes below 100 μL , Liquid Handling and Injection specifications may differ from those listed above.
Flow Rate	Up to 25 mL/min
Probe Positioning Performance	Accuracy: ± 0.05 mm in X/Y/Z dimensions Repeatability: ± 0.025 mm in X/Y/Z dimensions
Arm Speed	X and Y: 0.01–600.00 mm/sec Z: 0.01–125.00 mm/sec
Horizontal Motion Strength	X: 1.4 kg (3 lbs.) Y: 0.7 kg (1.5 lbs.) Z: 5.4 kg (12 lbs.)
Vertical Punch Strength	4.5 kg (10 lbs.)
Liquid Contact Materials	Valcon H, Nitronic 60 (N60), PTFE
Software	Gilson TRILUTION™ Software
Communication Interface	RS-232 or GSIOC; Four inputs (contact closure, TTL), four relay outputs, four switched +24V DC 1A outputs, one safety input and one analog input
Display Panel	Two lines of 40 alphanumeric characters, vacuum fluorescent display
Front Panel	ON/OFF and STOP soft keys, LED indicator for power
Power Requirements	Frequency: 50–60 Hz Voltage: 100–240V (Universal Input) Current rating: 5.0A for 100–120V or 2.5A for 220–240V Power consumption: 500W maximum
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Instrument Dimensions (w x d x h)	88.9 x 76.2 x 96.5 cm (35 x 30 x 38 in.)
Instrument Weight	68 kg (150 lbs.)

For applications or additional information, contact your local Gilson Technical Sales Representative or visit www.gilson.com.

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