Improve efficiency by increasing yields and shortening purification times



SPEC SHEET | PURIFICATION

PLC PURIFICATION SYSTEMS WITH AUTOSAMPLER

OPTIMIZE YOUR PURIFICATION

PLC Purfication Systems with autosampler allow you to queue samples and create multiple, unattended purification runs.

COMPACT, OUT-OF-THE-BOX SYSTEM

PLC Purification Systems, along with a GX-241 Liquid Handler and VERITY® 4020 Single Syringe Pump, provide a compact, yet flexible purification platform, that is both modular and configurable.

KEY BENEFITS

- Increased throughput
- Reduced contamination and carryover
- Easily automated injection/run sequences
- Multi-injection of different samples when using prep HPLC, flash chromatography, or CPC columns



Figure 1
PLC Purification System with Autosampler

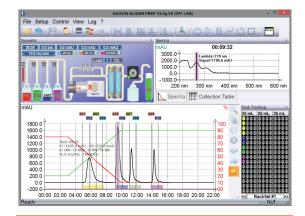


Figure 2
Gilson Glider Prep control software

ONE TOUCHSCREEN CONTROLS THE ENTIRE SYSTEM

- Pre-program or write methods as needed
- Quickly see and modify system parameters
- Conveniently print reports, export, or save them as PDF files



PLC 2050 AND 2250 PURIFICATION SYSTEMS		GX-241 LIQUID HANDLER AS AUTOSAMPLER	
Flow Rate / Max Pressure	PLC 2050 with Autosampler: Part #21140004 50 mL/min with pressure up to 300 bar (4351 psi) PLC 2250 with Autosampler: Part #21140005 250 mL/min with pressure	Sampler Type	Small footprint X/Y/Z with stationary rack design
		Probe Positioning Performance	Accuracy: ±0.75 mm in X/Y/Z dimensions
			Repeatability: ±0.20 mm in X/Y/Z dimensions
	up to 230 bar (3336 psi)	Arm Speed	0-350 mm/sec (300 mm/sec default) in X and Y
Performance	Flow rate accuracy: 2% (with H2O degassed at 20°C) Repeatability: Better than 0.5% Repeatability standard deviation (RSD)		dimensions 0-150 mm/sec (125 mm/sec default) in Z dimension
		Horizontal Motion Strength	0.3 kg (0.7 lbs)
Gradient Former	Binary (standard) Quaternary (optional) Linear Response to gradients from 2% to 98%	Vertical Punch Strength	1.8 kg (4 lbs)
Injection	Automatic or manual loop injection valve (optional) Additional injection pump (optional) Manual loop injection valve (optional)	Probe Rinse	Probe rinsing occurs through a dedicated rinse station with static and flowing rinse capabilities
		Front Panel	Two digit display and indicator Lights for Power and Error
Valve Options	Automatic backflush valve (optional) Manual column switching valve (optional)	Contact Control	Four inputs (contact closure, TTL), two relay outputs, and two switched + 24V 1A outputs
Column Holder	Built-in column clamp for up to 40 mm OD columns (standard) Additional standalone holder (optional): • Maximum height: 400 mm • Maximum diameter: 115 mm		Switching voltages higher than 30V or greater than 1 Amp of current may damage the instrument
		Environmental Conditions	Indoor use only Altitude: Up to 2000m Temperature range: 5°C-40°C Humidity: Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C, pollution degree 2
Detection	 UV monochromator single wavelength detector, 254 nm by default (standard) UV monochromator dual wavelength detector, 254/280 nm by default (optional) UV Detector, 4-wavelength DAD, 200-400 nm (optional) UV/VIS detector, 4-wavelength DAD, 200-600 nm (or 200-800 nm) (optional) VERITY* 1900 MS Detector (optional) Built-in ELS Detector (optional) 		
		Safety and Compliance	The liquid handler has been certified to safety standards required in Canada (UL), Europe, and the Unted States (CE & RoHS). Refer to the instrument rear panel label and the <i>Declaration of Conformity</i> document for the current standards to which the instrument has been found compliant
Collection	Several rack options available Rack overlays for easy tube identification (Optional) Funnel rack with 16 outlets for large and variable collection volume in external high-capacity containers (optional) Fraction collector cover kit (optional)	Power Requirements Dimensions* (WxDxH) *with Z-Arm installed	Voltage: 24V DCCurrent Rating (maximum): 6.25A, 150W
			External Power SupplyVoltage: 100-240V ACCurrent rating: 6.24 Amp, 150 Watts
Control	Touchscreen PC with Gilson Glider Prep software		39 x 50 x 47 cm (15.4 x 19.8 x 18.5 in)
——————————————————————————————————————	Line voltage 110-120 / 220-240 V~	and connected Weight* *with Z-Arm Installed	
Requirements	Line Frequency 50/60 Hz Wattage 450 W (maximum) Distribution TT or TN power system only Transient overvoltage Category II Class 1 equipment		7.7 kg (17 lbs)
Electrical Protection	General: Delayed action fuses 6.3A H 250 V~, T-type (24 V— and 5 V—) Delayed action fuses with different ratings L 250 V~, T-type		