## GX-271 ASPEC™ Systems

## GX-271 ASPEC™

The GX-271 ASPEC is a single-probe X/Y/Z liquid handler that when paired with a VERITY® 4060 Single Syringe Pump or VERITY® 4260 Dual Syringe Pump can automate liquid handling procedures and solid phase extraction (SPE) procedures that use positive pressure elution for cartridge-based applications.

### Documentation

The *ASPEC™ Systems Documentation CD* which includes the *GX-271 ASPEC™ User's Guide* (and other ASPEC system user's guides), plumbing diagrams, and IQ procedure documents is provided with the GX-271 ASPEC.

## VERITY® 4060 Single and VERITY® 4260 Dual Syringe Pumps

The VERITY® 4060 Single Syringe Pump and VERITY® 4260 Dual Syringe Pump allow for accurate aspirating and dispensing of samples and solvents. Each is equipped with user-selectable syringe(s), valve(s) for directing liquid from reservoir or probe or air from an external gas source, and independent pressure-sensing module(s) that monitor pressure on the fluid path which can be used to handle error conditions, such as high cartridge pressure or clogged liquid lines. An SPE air push can be performed on SPE cartridges using the syringe or an external gas source.

### Documentation

The *VERITY® 4060 Single and VERITY® 4260 Dual Syringe Pumps User's Guide* (and other ASPEC system user's guides), plumbing diagrams, and IQ procedure documents are included on the *ASPEC™ Systems Documentation CD* provided with the GX-271 ASPEC.

## GX Direct Injection Module (Optional)

Integration of a GX Direct Injection Module allows for on-line injection onto HPLC or LC/MS systems following solid phase extraction (SPE) clean-up.

Setup and installation instructions for the GX Direct Injection Module are provided in the *GX-271 ASPEC™ User's Guide*.

## GX Rinse Pump (Optional)

Integration of a GX Rinse Pump enables the option for a flowing rinse using high or low flow settings.

Setup and installation instructions for the GX Rinse Pump are provided in the *GX-271 ASPEC™ User's Guide*.

## Safety Shield (Optional)

Installation of a safety shield on the GX-271 ASPEC creates a safe working environment by preventing inadvertent contact with the X/Y/Z arm.

Safety shield installation instructions are provided in the *GX-271 ASPEC™ User's Guide*.

## Rinse Stations

Probe rinsing occurs through up to three dedicated rinse stations capable of performing inside and outside rinses, and a flowing outside rinse when the system includes a GX Rinse Pump.

**Setup Overview** →

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# GX-271 ASPEC™ System

## Setup Overview

### 1 Unpack the System

The GX-271 ASPEC system is shipped in two boxes: one box contains the GX-271 ASPEC and its standard accessories and the other contains the VERITY® 4060 Single Syringe Pump or VERITY® 4260 Dual Syringe Pump and its standard accessories. Other accessories (syringe, probe, racks, etc.) are packaged separately.

Locate the *ASPEC Systems Documentation CD* that was shipped with the GX-271 ASPEC.

### 2 Set Up the GX-271 ASPEC™

Set up the GX-271 ASPEC per the instructions provided in the *GX-271 ASPEC™ User's Guide*, which is included on the *ASPEC™ Systems Documentation CD* that was shipped with the GX-271 ASPEC. The user's guide is also available to view or download at www.gilson.com.

### 3 Set Up Accessories

If your ASPEC system includes a GX Rinse Pump, GX Injection Module, or Safety Shield, setup and/or installation instructions for these accessories are provided in the *GX-271 ASPEC™ User's Guide*.

### 4 Set Up the VERITY® 4060 Single Syringe Pump or VERITY® 4260 Dual Syringe Pump

Set up the VERITY® 4060 Single Syringe Pump or VERITY® 4260 Dual Syringe Pump per the instructions provided in the *VERITY® 4060 Single and VERITY® 4260 Dual Syringe Pumps User's Guide*, which is included on the *ASPEC™ Systems Documentation CD* that is supplied with the GX-271 ASPEC. The user's guide is also available to view or download at www.gilson.com.

### 5 Plumb the System

After setting up the GX-271 ASPEC, any accessories, and the VERITY® 4060 Single Syringe Pump or VERITY® 4260 Dual Syringe Pump, plumb the system. A plumbing diagram is provided on the *ASPEC™ Systems Documentation CD.* More detailed instructions are provided in the *VERITY® 4060 Single and VERITY® 4260 Dual Syringe Pumps User's Guide*, which is included on the *ASPEC™ Systems Documentation CD* and is also available to view or download at www.gilson.com.

### 6 Install TRILUTION® LH v3.0 Software

Install TRILUTION® LH v3.0 Software and the service pack per the installation guide included with the software and the instructions provided with the service pack. TRILUTION® LH v3.0 Software with Service Pack 3 (and higher) provides control of the GX-271 ASPEC system.

### 7 Start the System

1. Ensure that any accessories (GX Direct Injection Module and/or GX Rinse Pump) are connected to the GX-271 ASPEC.
2. Power on the PC first, the router next, and then power on the GX-271 ASPEC.
3. Power on the VERITY® 4060 Single Syringe Pump or VERITY® 4260 Dual Syringe Pump.
4. Start TRILUTION® LH software.