



ASPEC® 271 Systems



ASPEC® 271

The ASPEC 271 is a single-probe X/Y/Z liquid handler that when paired with an ASPEC® 4060 Single Syringe Pump or 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 USB* which includes the *ASPEC® 271 User's Guide* (and other ASPEC system user's guides), plumbing diagrams, and IQ procedure documents is provided with the ASPEC 271.

ASPEC® 4060 Single and ASPEC® 4260 Dual Syringe Pumps

The ASPEC 4060 Syringe Pump and ASPEC 4260 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 *ASPEC® 4060 Single and 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 USB* provided with the ASPEC 271.

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 *ASPEC® 271 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 *ASPEC® 271 User's Guide*.

Safety Shield (Optional)

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

Safety shield installation instructions are provided in the *ASPEC® 271 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

ASPEC® 271 System

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I UNPACK THE SYSTEM

The ASPEC 271 system is shipped in two boxes: one box contains the ASPEC 271 and its standard accessories and the other contains the ASPEC® 4060 Single Syringe Pump or ASPEC® 4260 Dual Syringe Pump and its standard accessories. Other accessories (syringe, probe, racks, etc.) are packaged separately. Locate the ASPEC Systems Documentation USB that was shipped with the ASPEC 271.

II SET UP THE ASPEC 271

Set up the ASPEC 271 per the instructions provided in the *ASPEC® 271 User's Guide*, which is included on the *ASPEC® Systems Documentation USB* that was shipped with the ASPEC 271.

III 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 *ASPEC® 271 User's Guide*.

IV SET UP THE ASPEC 4060 SYRINGE PUMP OR ASPEC 4260 SYRINGE PUMP

Set up the ASPEC 4060 Syringe Pump or ASPEC 4260 Syringe Pump per the instructions provided in the *ASPEC® 4060 Single and ASPEC® 4260 Dual Syringe Pumps User's Guide*, which is included on the *ASPEC® Systems Documentation USB* that is supplied with the ASPEC 271.

V PLUMB THE SYSTEM

After setting up the ASPEC 271, any accessories, and the ASPEC 4060 Syringe Pump or ASPEC 4260 Syringe Pump, plumb the system. A plumbing diagram is provided on the *ASPEC® Systems Documentation USB*. More detailed instructions are provided in the *ASPEC® 4060 Single and 4260 Dual Syringe Pumps User's Guide*, which is included on the *ASPEC® Systems Documentation USB*.

VI INSTALL TRILUTION® LH SOFTWARE

Install TRILUTION® LH Software per the installation guide included with the software. TRILUTION LH provides control of the ASPEC 271 system.

VII START THE SYSTEM

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