

QIAasymphony[®] SP — Pure Performance



Sample & Assay Technologies

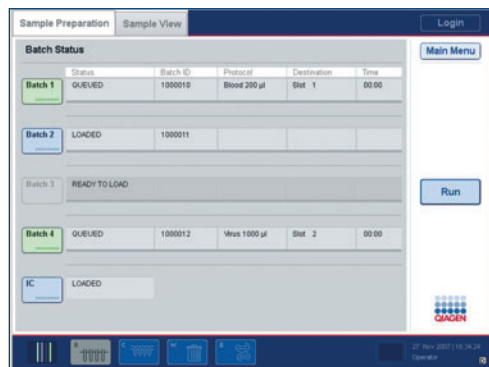


Fully automated sample and assay technologies

By combining performance-leading QIAGEN® magnetic-particle chemistry with a broad application range for RNA, DNA, and protein purification, the QIAsymphony SP sets a new milestone in automated sample technologies. Cutting-edge technology, innovative functions, and optimized protocols, plus processing of large sample volumes* give you high-performance results you can trust. The QIAsymphony SP is the first module in the new QIAsymphony series of automated systems, which provides automation of your complete workflow — from sample to assay.†



Loading of samples in plate format.



Intuitive, easy-to-use software.

The QIAsymphony SP enables your success in:

- Molecular diagnostics research and biomedical research
- Human identity testing, veterinary applications, and biosecurity research
- Life science applications, such as genomics and proteomics research

The QIAsymphony SP takes ease of use to a new level

The QIAsymphony SP is ready-to-run and requires only minimal installation, enabling fast startup in your laboratory. The QIAsymphony SP is operated via an integrated touchscreen, and up to 96 samples, reagents, and plasticware are loaded into drawers, providing increased ease of use and user safety. Innovative reagent cartridges enable processing of a wide range of starting materials with just a few kits. Bar code reading throughout the entire purification procedure enables full process documentation.

The QIAsymphony SP delivers pure performance:

- Purify DNA, RNA, or proteins from up to 96 samples
- Proven, performance-leading magnetic-particle chemistries
- Built-in flexibility for laboratory workflow integration
- Cutting-edge process control for safe operation
- Modular system for automation of complete workflows†

* 1 ml sample volumes can be processed when running certain applications (e.g., purification of viral nucleic acids or genomic DNA from blood).

† An automated assay setup system is currently under development; for more information, please inquire.

Unrivaled application range

QIASymphony Kits — backed by QIAGEN Quality™— increase laboratory efficiency since just a few kits in combination with optimized protocols cover an extensive range of starting materials and applications (Table 1). Sample volumes of up to 1000 µl and up to 50 mg of tissue or 10⁷ cells can be processed, providing increased nucleic acid yields for gene expression and genomics applications and higher sensitivity in virology and microbiology applications. The QIASymphony SP delivers pure performance in virus and bacteria applications and makes no compromise when purifying DNA from blood, RNA from tissues and cells, or proteins from *E. coli* or eukaryotic cells. For up-to-date information about QIASymphony applications, visit www.qiagen.com/goto/QIASymphony.

Innovative kit concept for ease-of-use and improved efficiency

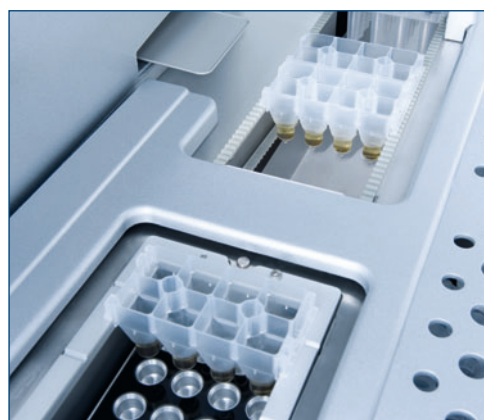
QIASymphony Kits are exceptionally easy to use. Innovative, ready-to-run reagent cartridges are prefilled with all reagents required for the purification procedure, including accessory enzymes. Worktable setup is rapid, which saves your valuable time. Simply place up to 2 reagent cartridges in the QIASymphony drawer. The reagent cartridges can be either from the same kit or from different kits, enabling different purification procedures to be performed within the same run of 96 samples. Reagent cartridges are automatically opened by the instrument and reagent volumes only for the selected number of samples are used, giving you complete cost control.

QIASymphony reagent cartridges are safe and fully trackable

QIASymphony reagent cartridges enable increased process safety and eliminate tedious manual documentation. Prefilled, sealed reagent cartridges eliminate pouring of reagents. Reagent cartridges, including accessory enzymes, are labeled with 2D bar codes, enabling automatic recognition by the QIASymphony SP and tracking of individual reagents throughout the entire purification procedure. Used reagent lots for each batch of samples are documented in the final result file.



Prefilled, sealed reagent cartridges are bar code labeled and ready to use.



Automated heated lysis and purification from sample volumes of up to 1 ml.



Two reagent cartridges can be loaded per run.



Separate compartments for convenient and easy handling

The QIASymphony SP makes automated sample preparation easier and more convenient than ever. Instrument setup for a run of 96 samples can be performed in just a few minutes, enabling efficient use of your time. Samples, reagents and consumables, and eluates are separated in different drawers. Simply load samples, reagent cartridges, and preracked consumables into the appropriate drawers before the protocol starts. Select your protocol and remove purified nucleic acids or proteins from the eluate drawer after processing.



Automated sample transfer from primary tubes.

Flexibility for seamless workflow integration

The sample input drawer accommodates a wide range of sample input formats to suit your workflow and sample preparation requirements. By using the appropriate tube or plate rack, you can load a variety of tube and plate types, including bar code labeled primary tubes from 10–16.9 mm or 96-well plates or blocks. Tubes in 4 racks of 24 samples or up to four 96-well plates or blocks can be placed in the sample input drawer. Bar codes are automatically read as the sample carrier slides into the instrument, enabling sample tracking throughout the purification process.



Automated bar code reading of sample tubes.

In-process sample loading* and prioritization of urgent samples

The high-performance specifications of the QIASymphony SP include in-process sample loading. This advanced feature enables you to load additional sample racks during an ongoing protocol run, making sample preparation even more time efficient and convenient. Simply select the protocol and queue samples for processing after the current batch. Furthermore, you can prioritize the processing order of queued batches to enable preparation of urgent samples.

* For availability of this feature, please inquire.

Choice of elution formats

Purified nucleic acids or proteins are eluted into tubes or plates. Four different elution positions are available and eluates can also be cooled. Eluates can be removed from the output drawer at the end of the protocol run or after a batch of 24 samples has been processed — giving you added flexibility.

Intuitive system

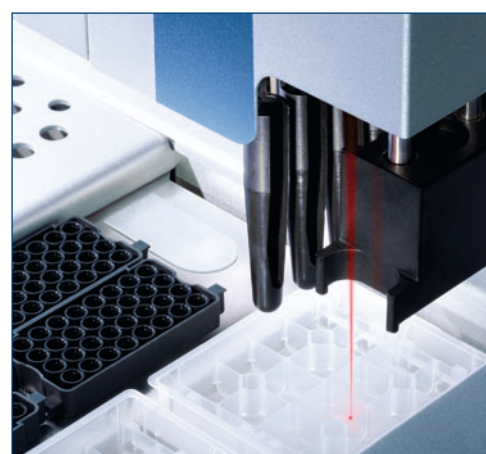
The QIAasymphony SP is an intuitive, easy-to-use system. An integrated touch-screen enables easy protocol selection, and parameters such as elution volume or type of labware can be selected to suit the requirements of your downstream applications. The QIAasymphony SP is preinstalled with optimized protocols for purification of nucleic acids or proteins from a wide range of starting materials (Table 1).

Advanced process safety

With its innovative design, the QIAasymphony SP delivers exceptional process safety and standardized sample preparation. Safety features such as enhanced liquid-level detection and clot detection contribute to the robustness of the purification procedure. In addition, tip guards help to minimize the risk of cross-contamination and an integrated UV light enables decontamination of the worktable. Prefilled reagent cartridges and automatic recognition of reagent cartridges combined with a detailed inventory scan helps to ensure that the system has everything it needs for the protocol. Bar code reading of reagents as well as samples and eluates enables full tracking throughout the entire purification procedure — from sample to eluate.



Choice of elution formats, including cooling.



Detailed inventory check helps to eliminate human error.

Table 1. Flexible processing of a wide range of samples

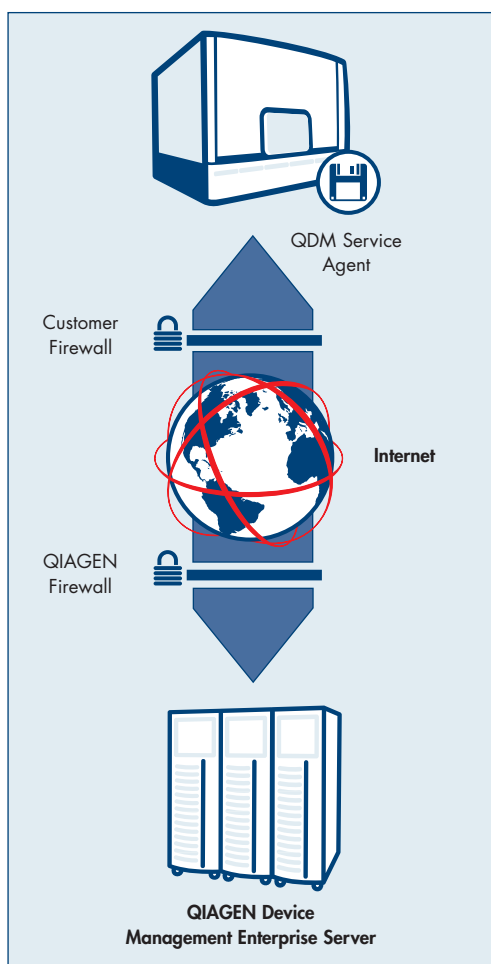
QIAasymphony Kit	Starting material and amount
QIAasymphony Virus/Bacteria Kits	Purification of viral nucleic acids from up to 1000 µl plasma, serum, or CSF Purification of viral nucleic acids and bacterial DNA from 200 µl respiratory samples, up to 800 µl urine or transport media, or air-dried swabs
QIAasymphony DNA Kits	Purification of DNA from up to 1000 µl human whole blood, 400 µl buffy coat, 50 mg tissue, or 1×10^7 cells
QIAasymphony DNA Investigator Kit	Purification of reference and casework samples for human identity testing and forensics
QIAasymphony RNA Kit	Purification of total RNA from up to 50 mg tissue or 1×10^7 cells
QIAasymphony PAXgene™ Blood RNA Kit*	Purification of cellular RNA from 2.5 ml human whole blood collected in PAXgene Blood RNA Tubes
QIAasymphony PCR Purification Kit	Purification of PCR products from up to 100 µl amplification reactions
QIAasymphony Ni-NTA Native Kit	Purification of 6xHis-tagged proteins from up to 5 ml <i>E. coli</i> or up to 2.5×10^7 eukaryotic cells
QIAasymphony Ni-NTA Denaturing Kit	Purification of 6xHis-tagged proteins from up to 5 ml <i>E. coli</i> or up to 2.5×10^7 eukaryotic cells

* Up to 48 samples can be processed per run.



QIAGEN Device Management enhances process efficiency

At QIAGEN, one of our key goals is to help you achieve outstanding success in your laboratory work. To meet your demands, we provide state-of-the-art service and support for your automated applications.



Through novel service capabilities, we enable increased availability and productivity of your QIASymphony SP. On request, QIAGEN Device Management can send instrument data from your QIASymphony SP through an encrypted, secure link to our in-house server, enabling faster service response times and maximum instrument uptime. You benefit from optimal instrument performance and early and accurate diagnosis of problems.

Comprehensive service and support

QIAGEN Instrument Service provides flexible service support agreements tailored to your needs. We also provide Warranty PLUS extended warranties, giving you complete cost control and enhanced coverage through priority response times.

Table 2. Specifications of the QIASymphony SP

Dimensions	Width: 130 cm (51.2 in.)
	Depth: 75 cm (29.5 in.) drawer closed 125 cm (49.2 in.) drawer open
	Height: 103 cm (40.6 in.) door closed 163 cm (64.2 in.) door open
Weight	175 kg (385.8 lb.) 220 kg (485 lb.) with packaging
Electrical requirements	100–240 V AC, 50–60 Hz ± 10%, 800 VA
Sample throughput	1–96 samples per run
Sample input volume	Up to 1000 µl
Warranty	1-year warranty on parts and labor

Visit www.qiagen.com/goto/QIASymphony to discover more about the QIASymphony SP!

Ordering Information

Product*	Contents	Cat. no.
QIAasymphony SP	QIAasymphony sample prep module, 1-year warranty on parts and labor†	9001297
QIAasymphony Virus/Bacteria Mini Kit (192)‡	For up to 192 preps of 200 µl each: Includes 2 reagent cartridges and enzyme racks and accessories	931036
QIAasymphony Virus/Bacteria Midi Kit (96)‡	For up to 96 preps of 1000 µl each: Includes 2 reagent cartridges and enzyme racks and accessories	931055
QIAasymphony DNA Mini Kit (192)‡	For 192 preps of 200 µl each: Includes 2 reagent cartridges and enzyme racks and accessories	931236
QIAasymphony DNA Midi Kit (96)‡	For 96 preps of 1000 µl each: Includes 2 reagent cartridges and enzyme racks and accessories	931255
QIAasymphony DNA Investigator Kit (192)‡	For 192 preps from casework and reference samples: Includes 2 reagent cartridges and enzyme racks and accessories	931436
QIAasymphony RNA Kit (192)	For 192 preps: Includes 2 reagent cartridges and enzyme racks and accessories	931636
QIAasymphony PAXgene Blood RNA Kit (96)	For 96 preps: Includes 2 reagent cartridges and enzyme racks and accessories	762535
QIAasymphony PCR Purification Kit (192)	For 192 preps: Includes 2 reagent cartridges and enzyme racks and accessories	932036
QIAasymphony Ni-NTA Native Kit (384)	For 384 micro-scale preps or 48 medium-scale preps: Includes 2 reagent cartridges and enzyme racks and accessories	932636
QIAasymphony Ni-NTA Denaturing Kit (384)	For 384 micro-scale preps or 48 medium-scale preps: Includes 2 reagent cartridges and enzyme racks and accessories	932836
Sample Prep Cartridges, 8-well (336)	8-well Sample Prep Cartridges for use with the QIAasymphony SP	997002
8-Rod Covers (144)	8-Rod Covers for use with the QIAasymphony SP	997004
Filter-Tips, 200 µl (1024)	Sterile, Disposable Filter-Tips, racked; (8 x 128)	990332
Filter-Tips, 1500 µl (1024)	Sterile, Disposable Filter-Tips, racked; (8 x 128)	997024

* Not all features and products described will be available in Q2 2008; please inquire.

† A comprehensive range of service agreements is available; please inquire.

‡ An additional buffer may be required for some sample types; please inquire.

The QIAasymphony SP is intended to be used only in combination with QIAasymphony Kits for applications described in the respective QIAasymphony Kit handbooks. QIAasymphony DNA Kits and QIAasymphony Virus/Bacteria Kits are intended for general laboratory use. No claim or representation is intended to provide information for the diagnosis, prevention, or treatment of a disease. The QIAasymphony PAXgene Blood RNA Kit and QIAasymphony RNA Kit: For Research Use Only. Not for use in diagnostics procedures. No claim or representation is intended to provide information for the diagnosis, prevention, or treatment of a disease.

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LABORATORY & POINT OF CARE DIAGNOSTICS

16530 Ventura Blvd, Suite #512, Encino, CA 91436

Tel: 800-676-5565 Fax: 818-986-0235

JantDX.com info@JantDX.com

