

Spinsolve Advanced Autosampler

High throughput sample measurements with fully automated temperature-controlled sample changer on any Spinsolve



Technical Features and Specifications

- Capacity: 2 sample racks with 40 slots each - 80 slots total
- Sample tubes: Standard 5-mm OD, 7-inch long NMR tubes
- Sample temperature control: ambient to 60 °C, built-in electrical heating
- Operation Software: Spinsolve software add-on with permanent license, easy protocol queue up and processing
- Compatible with all Spinsolve models, flow cell setup, and manual loading
- Safe operation: integrated load measurement with auto-stop on overload or obstruction
- Dimensions including Spinsolve approx. 38"x28"x22" (HxWxL)
- Input Voltage: 110/220 V
- USB connection to spectrometer's computer

Intuitive software interface fully integrated in the Spinsolve software

Sample slots

- Protocols for each sample are added to the queue with a single click
- New samples can be added/removed while the queue is running
- A preset series of experiments can be loaded from a previously saved list

The screenshot displays the Spinsolve software interface. At the top, there is a menu bar with icons for various NMR parameters (1H, 13C, 15N, 19F, 23Na, 31P) and system controls (QUEUE, RMX, qNMR, DB, SYSTEM). Below the menu bar, a status bar indicates the system is connected to SPA3469 and provides details for 80 13C/31P/7Li/23Na ULTRA DIFFUSION. The main interface is divided into several sections:

- Sample Slots:** A row of 20 slots (R1 to R20) is shown. R1-R5 are occupied with samples: R1 (20 mM Ibuprofen), R2 (20 mM Ibuprofen), R3 (20 mM Ibuprofen), R4 (10 mM L-Phenylethylamine), and R5 (Bioscience Hydro). R6-R20 are currently empty (pale colored).
- Queue of protocols:** A table lists protocols for each slot, including protocol names, start times, and end times. For example, R3 has a '1D EXTENDED+' protocol starting at 11:25:43 and ending at 11:26:50.
- Experiment Parameters:** A panel for the selected protocol (1D EXTENDED+) shows parameters such as SAMPLE (20 mM Ibuprofen), SOLVENT (Chloroform-d), SCANS (16), ACQUISITION TIME (3.2 s), REPETITION TIME (4 s), and PULSE ANGLE (90).
- Spectrum Scan:** A plot titled 'Spectrum Scan [15/16]' shows Amplitude vs. ppm (0 to 10). The sample is 20 mM Ibuprofen in Chloroform-d. The plot shows several peaks, with the most prominent one at approximately 7.5 ppm.

Queue of protocols for each sample

- Easy view of the history of completed and future protocols in the queue
- The sample queue can be modified at any time to change the order in which the samples are measured
- The order of protocols can be easily changed by dragging them up or down

Data window

Data is displayed for running and completed experiments

Experiment parameters

The individual parameters for each experiment are defined when the protocols are loaded and they are displayed during data acquisition

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