

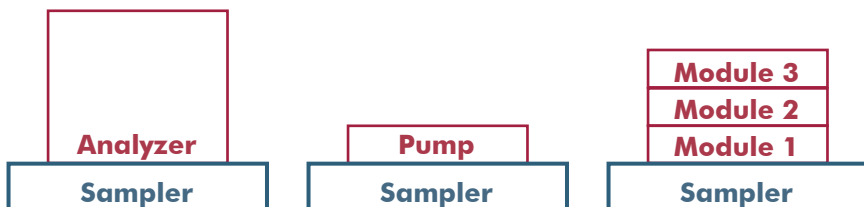


1120 Random Access Sampler

The elegantly simple Radius Labs Random Access Sampler is a robust economical design available for both OEM and End-User applications to provide highly dependable automated delivery of liquid samples for a variety of devices including analyzers and fluidic processing modules. Based on a carousel-type sample tray, the unit requires minimal mechanical movement to access any of the sample positions and can do so randomly as specified in software much as a hard disk operates. This enables the sample probe to move directly to a specified cup position rather than increment sequentially to it to, for example, facilitate rapid movement to a calibration standard, spike or QC sample which may be run repeatedly during a single sample tray sequence.



Unit includes three integral color-coded pumps: Two for wash bath control and one for sample aspiration.



Autosampler for OEM and End-User Applications

- Automates sample introduction to analyzers and fluidic processing units.
- Standard sample tray accommodates 120 x 5 mL sample tubes.
- Integral color-coded pumps for wash in, wash out and sampling.
- Stepper motors control probe vertical motion, arc swings and tray rotation.
- High torque vertical drive enables puncturing of septum-seal vials.
- Low profile (only 7 inches in height) to allow module stacking above with optional shelf.
- Internal drives and tubing management – no messy external tubing to snag or crimp.

Optional Shelf

An optional shelf with a pull-out drawer is available for stacking of modules over the autosampler to save valuable bench space. For OEM purchasers this gives your product a more integrated and professional appearance.

Software Driver

A comprehensive programmable driver operates in the background and provides maximum flexibility to specify sample cup depth, wash bath depth and times for sample aspiration, wash aspiration, wash bath fluid in and wash bath fluid out. Several experimental parameters are also included for interfacing and testing with various devices. Of course the final programming window displayed to users can be as simple as specifying sample and wash times with pumps going on and off automatically using pre-programmed timings.

Ordering Information

OEM Version 1: Model 1120 – OEM1 Autosampler to include standard sample tray to accommodate 120 x 5 mL tubes, sample tray holder for off-sampler tube filling, 2 x wash pumps, 1 x sampling pump, external power supply, USB cable, starter pack of 120 x 5 mL tubes, sample probe with connector tubing, wash bath with connector tubing and software controller. Available with private label and custom chassis paint color.

OEM Version 2: Model 1120 – OEM2 Autosampler to include customized sample tray, 2 x wash pumps, sample tray holder for off-sampler tube filling, no sampling pump, external power supply, USB cable, starter pack of 120 x 5 mL tubes, sample probe with connector tubing, wash bath with connector tubing and software controller. Available with private label and custom chassis paint color.

OEM Version 3: Model 1172 – OEM3 Autosampler to include septum-seal vials tray, sample tray holder for off-sampler vial filling, 2 x wash pumps, 1 x sampling pump, external power supply, USB cable, starter pack of 172 x 2 mL vials with septum caps, sample probe with connector tubing, wash bath with connector tubing and software controller. Available with private label and custom chassis paint color.

End-User Version 1: Model 1120-A Autosampler to include sample tray to accommodate 120 x 5 mL tubes, sample tray holder for off-sampler tube filling, 2 x wash pumps, 1 x sampling pump, external power supply, USB cable, starter pack of 120 x 5 mL tubes, sample probe with connector tubing, wash bath with connector tubing and software controller.

End-User Version 2: Model 1120-B Autosampler to include sample tray to accommodate 120 x 5 mL tubes, sample tray holder for off-sampler tube filling, 2 x wash pumps, no sampling pump, external power supply, USB cable, starter pack of 120 x 5 mL tubes, sample probe with connector tubing, wash bath with connector tubing and software controller.

End-User Version 3: Model 1172 Autosampler to include sample tray to accommodate 172 x 2 mL septum-seal vials tray, sample tray holder for off-sampler vial filling, 2 x wash pumps, 1 x sampling pump, external power supply, USB cable, starter pack of 172 x 2 mL vials with septum caps, sample probe with connector tubing, wash bath with connector tubing and software controller.

Options:

- Customized sample trays for open sample vessels – specify sample vessel size
- Sample tray to accommodate septum-sealed vials
- Shelf with slide-out tray to accommodate autosampler underneath and analyzer, pump or stacking modules above

Design Integration: Sampler mechanism is available for integration into customer-designed systems

Licenses: Manufacturing licenses available for qualified customers

Specifications

Height: 7 inches

Width: 10 inches

Depth: 15 inches

Benchspace: 150 sq. in.

Weight: 5 lb.

Power Supply: External, 100–230 VAC ($\pm 10\%$); 50/60 Hz; 150 W (max)

Communication: USB

Certifications: CE

Environment: 15–35 °C operating temperature, 10–90% relative humidity

Sample Capacity: 120 x 5 mL disposable sample tubes standard

Sample Probe: 304 Stainless Steel (others available on request)

Sample Transfer Tubing (connected to sample probe): 0.5 mm I.D. Teflon (others available on request) with optional peristaltic transfer pump

Wash Bath: Includes two integral peristaltic pumps for wash in and out for internal and external sample probe rinsing between samples to prevent cross-contamination