

## Atomic Spectroscopy



### Key Benefits

- Large, flexible sampling capacity
- Fast, accurate random access
- Corrosion-resistant sampling components
- Automatic rinsing
- Flow through rinse station to minimize sample-to-sample contamination

## S10 Autosampler for Atomic Spectroscopy

The PerkinElmer® S10 autosampler is a computer-controlled, multi-purpose sampling system for AA, ICP-OES and ICP-MS. The autosampler automates standard and sample introduction for instrument calibration and sample analysis, extending the spectrometer's capabilities to those of a fully automated analytical workstation.

### Fast, accurate sample access

An advanced drive system with high-precision motors moves the sampling arm of the S10 in the X and Y coordinates simultaneously, minimizing changeover time between samples. Random-access programming gives the user exceptional flexibility in the placement of samples and reference solutions.

### Large, flexible sample capacity

The S10 provides more than 200 vessel positions for maximum capacity. Sample racks are easily interchanged, reducing analysis setup times and giving you the flexibility to use different-sized sample vessels matched to your analytical needs.

The S10 autosampler has a built-in peristaltic pump for continuous rinsing of the sampling capillary between samples to significantly reduce the risk of carryover. The sample probe, including the sample transport capillary tubing, is acid- and solvent-resistant for long-term operation.

## Specifications

### Sampling Arm Movement

|   |  |
|---|--|
| Maximum movement  | Vertical: 145 mm; Horizontal: x 302 mm, y 222 mm |
| Resolution  | 0.1 mm $\pm$ 4%                                  |
| Speed (movement from one sampling position to the next) | Typically 3 seconds or less                      |

### Power Requirements

|     |   |
|-----|---|
| S10 | Built-in power supply: 115/230 V, 50/60 Hz. |
|-----|---|

### Dimensions

|                        |                       |
|------------------------|-----------------------|
| Width x Height x Depth | 46 cm x 53 cm x 38 cm |
| Weight                 | 5 kg                  |

## Rack Configurations

### Tray Type

### Required Sub Trays

|        |  |
|--------|--|
| Tray E | 1 tray of B3140621 and 2 trays of B3140617 |
| Tray F | 1 tray of B3001647 and 2 trays of B3140618 |
| Tray G | 3 trays of B3140621                        |

## Sample Trays

| Order No.              | B3140617 | B3140618 | B3140621 | B3001647 |
|------------------------|----------|----------|----------|----------|
| Sample locations       | 90       | 60       | 21       | 9/29     |
| Location diameter (mm) | 13       | 16       | 30       | 30/16    |
| Sample vessel (mL)     | 6 or 8   | 15       | 50       | 50/15    |

## Polypropylene Tubes

We offer a wide variety of high-quality, capped and uncapped autosampler tubes and supplies for your S10 Autosampler. Ranging in size from 8 mL to 50 mL, these tubes are available with either round or conical bottoms. Free-standing options are also available.\*

### Autosampler Tubes

| Part No. | Capacity | Size                            | Type         | Qty  |
|----------|----------|---------------------------------|--------------|------|
| N0777156 | 8 mL     | 13 mm x 100 mm                  | Round Bottom | 1200 |
| N0777167 | 15 mL    | 17 mm x 100 mm                  | Round Bottom | 1200 |
| N0777599 |          | Plug for 15 mL Vials (N0777167) |              | 1200 |
| N9301205 | 16 mL    | 17 mm x 100 mm                  | Round Bottom | 1000 |
| N0777158 | 50 mL    | 30 mm x 115 mm                  | Round Bottom | 500  |



### Autosampler Tubes with Caps

| Part No.  | Capacity | Size           | Type           | Qty |
|-----------|----------|----------------|----------------|-----|
| B0193233  | 15 mL    | 13 mm x 100 mm | Conical Bottom | 500 |
| B0193234* | 50 mL    | 30 mm x 115 mm | Conical Bottom | 500 |

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