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Perkin Elmer AS-90A Autosampler

Performance Specifications

Exceptional sampling capacity

The PerkinElmer AS-90 autosamplers are computer-controlled, multipurpose sampling systems for flame and flow injection atomic absorption, ICP-OES and ICP-MS. The AS-90 autosamplers automate standard and sample introduction for instrument calibration and sample analysis via software commands, extending the spectrometer's capabilities to those of a fully automated analytical work station. The AS-90 performance has been proven in thousands of laboratories worldwide.

The easily interchanged sample trays of the AS-90 give you the flexibility to use a variety of differently sized sample vessels. Use large-volume vessels for long-term, automatic operations requiring increased solution volumes. Use smaller vessels if you wish to analyze increased numbers of samples or when only small sample volumes are required.

Fast, accurate sample access

Precise stepper motors move the AS-90 sampling arm to its programmed X-Y-Z coordinates quickly and accurately. Random access programming gives you broad flexibility in the placement of samples and references. The sample probe (including the sample transport capillary tubing) is made of acid and solvent-resistant PTFE.

Tailored to your needs

To best serve your analytical requirements and provide the best price/performance ratios, the AS-90 is available in three versions – the AS-90, AS-90A, and AS-90*plus*. All are computer-controlled. They differ primarily in the way they are powered and controlled and in the features offered.

Key Benefits:

- Large sampling capacity
- Fast, accurate sample access
- Random access for added flexibility
- Corrosion-resistant sampling components
- Models tailored to meet your needs

The AS-90 is powered from a FIAS™-100/400 or FIMS™-100/400 flow injection system or a separate, standalone power supply. The AS-90A is powered from an AAnalyst™ 600, 700 or 800 AA spectrometer. The AS-90*plus* includes an integrated power supply and control electronics. With the AS-90A and AS-90*plus*, an advanced drive system moves the sampling arm in the x and y coordinates simultaneously, minimizing changeover time between samples.

Exchangeable Sample Trays

AS-90 (all versions)			
Tray	A	B*	C
Part Number	B300-0133	B300-0132	B300-0135
Sample Locations	144	98	36
Location Diameter (mm)	13.6	17.5	31
Sample Vessel (mL)	6 or 8	15	50

*Tray B is included with all versions of the AS-90 autosampler. The other trays shown are optional accessories. All trays also include 8 locations (31 mm i.d.) for 50-mL reference solution vessels and 1 location (61 mm i.d.) for a 250-mL blank solution vessel.

AS-90 Ordering Information

For use with the...	Order this version of the AS-90...
AAnalyst™ 100/300 AA, Optima™ ICP-OES, and ELAN® ICP-MS Systems	AS-90 <i>plus</i> , B314-0291
AAnalyst 700/800 AA Systems	AS-90A, B314-0290
FIAS-100/400 Flow Injection Systems and FIMS-100/400 Flow Injection Mercury Systems	AS-90, B050-8540

Technical Data:

Sampling Arm Movement	
Maximum movement	Vertical: 145 mm; Horizontal: X-302 mm, Y-110 mm
Resolution	Approximately 0.1 mm ±4%
Speed	Typically about 3 seconds from one location to the next

Power Requirements	
Autosampler:	Powered from:
AS-90	FIAS-100/400 or FIMS-100/400
AS-90A	AAAnalyst 600/700/800
AS-90plus	Power supply provided: 115/230 V
Dimensions	
Width x Height x Depth	AS-90 (all), 420 x 370 x 240 mm
	AS-90 Control Unit, 415 x 182 x 280 mm
Weight	AS-90 (all), 3 kg
	AS-90 Control Unit, 5.5 kg

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