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## ***Dionex ASE 100***

*The ASE 100 is an entry level accelerated solvent extraction system. This system is economically priced while offering fast and efficient extraction for a large range of sample sizes. The new system design allows for the extraction of samples up to 100 mL quickly and easily using minimal amounts of solvent.*

### **Product Highlights**

- Reduces extraction time and solvent consumption by the use of elevated temperature and pressure during extraction.
- Extracts from one- to fifty-gram samples using 15–150 mL of solvent.
- Extracts are automatically filtered and ready for direct injection or final clean up.
- Easy-to-fill sample cells (10, 34, 66, and 100 mL) with finger-tight fittings.
- Easy-to-use collection bottles
- Convenient multiple method storage for ease of use
- Convenient front panel operation runs method automatically

### **Accelerated Solvent Extraction**

ASE is a technique for extracting solid and semisolid samples with liquid solvents. It uses conventional liquid solvents at elevated temperatures and pressures to increase the efficiency of the extraction process. Increased temperature accelerates the extraction kinetics, while elevated pressure keeps the solvent below its boiling point, thus enabling rapid extractions.

### **Approved Methods**

ASE meets all of the requirements for extraction under U.S. EPA SW-846 Method 3545A for Pressurized Fluid Extraction of base/neutral and acids (BNA), organ chlorine pesticides (OCP) chlorinated herbicides, polychlorinated biphenyls (PCBs), organ phosphorus pesticides (OPP), polychlorinated dioxins and furans, and total petroleum hydrocarbons (TPH). ASE replaces Soxhlet, sonication, wrist shaking, and other extraction techniques.

## PART NUMBERS

Description	Part Number
ASE 100 with 10-mL extraction cells	059700
ASE 100 with 34-mL extraction cells	059701
ASE 100 with 66-mL extraction cells	059702
ASE 100 with 100-mL extraction cells	059703

### Specifications

#### ***Oven:***

Accepts 10-, 34-, 66-, and 100-mL cells Extraction cell door handle places cell into oven Temperature control up to 200 °C Vertical cell orientation with flow from top to bottom

#### ***Pump:***

Fluid delivery pressure at 10 MPa (1500 psi)  
Automatic pressure sensor and pressure relief during heat-up

#### ***Fluid Sensors:***

IR sensors detect the presents of a collection bottle and fluid levels during extract collection.

#### ***Display and Keyboard:***

Menu operated VFD 4 x 20-character display Method storage

#### ***Extraction Cells:***

Four capacities: 10, 34, 66, and 100 mL Internal cell diameter: 17.1, 28.3 mm Fingertight cell caps with compression seal for high-pressure closure

#### ***Collection Bottles:***

250 mL; bottles lids have solvent resistant septa (TFE-coated on solvent side)

#### ***Collection Bottle Holder:***

Compatible with 250-mL bottles

#### ***Extraction Fluids:***

Compatible with a wide range of organic and aqueous solvents

#### ***Dimensions (h x w x d):***

55.6 x 35.6 x 47.5 cm (21.9 x 14.0 x 18.7 in.)

#### ***Weight:***

34 kg (75 lb)

***Power Requirements:***

Consumption: 500 VA (Watts) max. Voltage: 100–120 or 220–240 V ac Frequency: 50/60 Hz

***Pneumatic Requirements:***

Air at 400–827 kPa (60–120 psi) (optional)

N2 at 1034–1340 kPa (150–200 psi)



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