

Pressure liquid extractor

Description/Parameters

Accelerated extractor Dionex AXE 350 - manufactured by Thermofisher Scientific, is used for the extraction of organic and inorganic substances from solid samples such as sludges, sediments, waste, plastics and biological matrices. 1 – 100 g of sample can be used for extraction, depending on the size of the extraction cartridge. Up to three different solvents or solutions can be used for extraction. A high-pressure liquid pump pumps the solvent at a pressure of up to 10 MPa into the steel extraction cartridge with the sample. The cartridge can also be heated up to 200°C. Extraction under elevated pressure and temperature can be repeated. The extract is discharged through the filter into a 60 mL or 250 mL collection vial. The extract residues are squeezed out of the extraction cartridge with nitrogen gas. The extractor can be controlled from a keyboard with an LCD panel or from a PC using the Chromeleon software. Up to 24 extraction methods and 24 sample sequences can be stored in the extractor's memory.

- Number of extraction cartridges max. 24
- Extraction cartridge sizes: 1, 5, 10, 22, 34, 66, and 100 mL
- Collection vials for the extract in the carousel: 28 pcs of 60 mL and 5 pcs of 250 mL
- Number of storage bottles for mixing different solvents: 3 pcs 2 L
- Maximum operating pressure: 10 MPa (100 bar)
- Maximum operating temperature: 200°C
- Programming of extraction methods and sequences using Chromeleon 7.1 software. CDS
- Control of the ASE 350 from a PC using Chromeleon 7.1 software. CDS
- Memory for 24 extraction methods and 24 sequences with a maximum of 24 samples

Utilization/Services

Extraction of organic substances (pharmaceuticals, pesticides, PAHs, etc.) and inorganic ions from solid samples (sludge, sediments, plastics, waste, biological samples).

