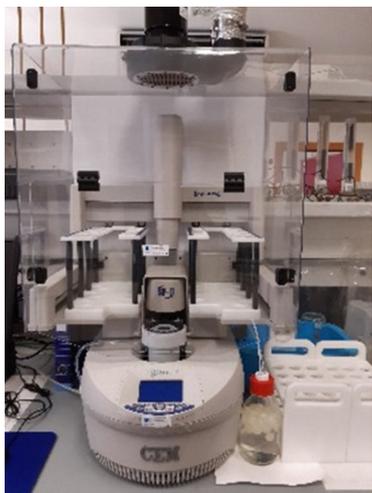# Automated Microwave Digestion System

TECHNICAL DETAILS

Manufacturer: CEM

Model: Discover SP-D 80

Extras: -

HOW IT WORKS?

The system can be used for digestion of water, soil, sediment, food, plants, beverages, wastewater or waste products, and others.

This is a system fully automated with autosampler 24 vials/vessel. Since each vial/vessel has its own method, you can mix and match samples and acids within the autosampler.

Digestion time can be 10 minutes, depending on the digestion method. Allows to obtain a clear aqueous sample necessary to other chemical analysis as determination of elements by MP-AES, AA or ICP, ICP-MS, others.

It has a microwave cavity that produces a highly defined and extremely homogeneous microwave field that allows sample digestion.

The PowerMAX™ Cooling provides the ability to cool the vial/vessel rapidly and avoid many exothermic reactions that can occur during digestion. You need to weigh the sample and add acid, snap on the cap, place it in the autosampler and in the end load the method and press Start.

APPLICATIONS

The system can be used in digest of water, geological and vegetal samples, soils, foods, plants, beverages and wastewater or waste products, and others.

ANALYSIS REQUIREMENTS

Samples that can be digested with acids (except HF). Samples of freshwater, wastewater, plasm, food, plants, fish, and others can be processed. The minimum volume for each vial/ vessel is 5mL nitric acid or other. 0.2 – 2 g or 1 – 25 ml of the sample are required, depending of the sample and digestion method.

ACCESS CONDITIONS

Remote and On-site