

XTrust series Microwave Digestion System

A Variety of Digestion Vessels
Efficient & Easy
Multiple Safety Protection



Flexible with Samples

Compared with conventional digestion methods, microwave digestion has the advantages of fast reaction rate, short sample preparation time, less reagent consumption, low reagent blank value and high accuracy. It is widely used for sample pre-treatment of elemental analysis using AAS, AFS, ICP, ICP-MS.

RayKol newly-introduced XTrust series microwave digestion system can provide a safe, easy and efficient digestion along with wide range of digestion vessels, flexible with various digestion requirements of different samples and suitable for various laboratories.

A Variety of Digestion Vessels

- Digestion rotors with various positions for different applications.
- Vessel volume: 75mL and 100mL, for different sample matrices.

Efficient & Easy

• Software design

Touch screen control, intuitive software interface.

Real-time monitoring and parameter updates.

• Data storage

Can store methods and experiment data

Direct access to data through built-in screen

• Operation

Users can program, modify and save any digestion methods

Can set more than one digestion stage in each method

• Digestion rotor identification

Can automatically identify the type and size of digestion rotor without manual setting.



T-08 digestion rotor



T-10 digestion rotor



T-12 digestion rotor



T-16 digestion rotor



T-24 digestion rotor



T-42 digestion rotor

Multiple Safety Protection

• Microwave oven cavity

316L stainless steel chamber

Multi-layers of PFA corrosion resistance coatings on cavity surface

• Material of digestion vessel

Digestion vessel insert: modified polytetrafluoroethylene (TFM)

Digestion vessel: high strength composite fiber PEEK material or aerospace fiber composite material

High temperature and high pressure resistance and acid resistance

• Temperature and pressure monitoring

Temperature monitoring through mid-infrared or optical fibre to vessels, pressure monitoring through non-contact scanning or via automatic pressure release mechanism, to ensure safe operation.

• Various active and passive safety features

Include industrial high-strength oven cavity, explosion-proof safety door, alarm for over-pressure, over-current protection, noise detection, faulty alarm, non-destructive pressure release.



XT-9916 Microwave Digestion System

Digestion rotor	T-12, T-16, T-42(26) digestion rotors
Vessel volume	100mL for T-12/T-16 digestion rotors; 75mL for T-26/T-42 digestion rotor



XT-T6 Microwave Digestion System

Digestion rotor	T-12, T-24 digestion rotor
Vessel volume	100mL for T-12 digestion rotor; 75mL for T-24 digestion rotor



XT-9906 Microwave Digestion System

Digestion rotor	T-6 digestion rotor
Vessel volume	100mL



XT-MUI Microwave Digestion System

Digestion rotor	T-8, T-10, T-12 digestion rotors
Vessel volume	100mL

Application field

Food, environmental monitoring, agricultural products, pharmaceuticals, cosmetics, textiles, geology, metallurgy, plastics, coal, petrochemical industry, biomedicine, battery manufacturing

Application example

Determination of lead in food

Determination of total mercury and organic mercury in food

Determination of multi-elements in food

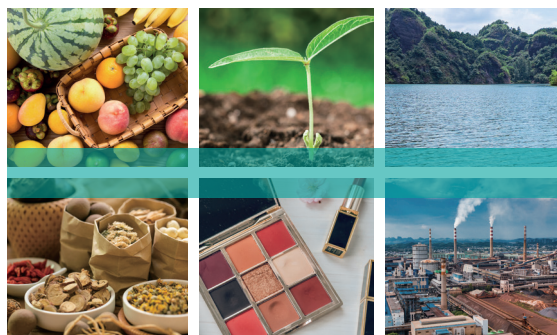
Soil and sediment - Determination of copper, zinc, lead, nickel, chromium – Flame AAS

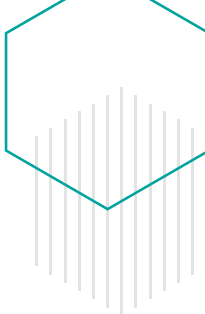
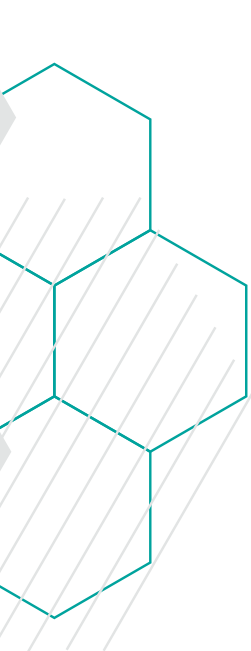
Soil and sediment - Determination of mercury, arsenic, selenium, bismuth, antimony - Microwave dissolution/AFS

Soil and sediment - Digestion of total metal elements - Microwave assisted acid digestion method

Water quality - Digestion of total metals - Microwave assisted acid digestion method

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