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 assess 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.

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.
**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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<tr>
<th>XT-9916 Microwave Digestion System</th>
<th>XT-MUI Microwave Digestion System</th>
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<tr>
<td>Digestion rotor</td>
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<tr>
<td>T-12, T-16, T-42(26) digestion rotors</td>
<td>T-8, T-10, T-12 digestion rotors</td>
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<tr>
<td>Vessel volume</td>
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<td>100mL for T-12/T-16 digestion rotors; 75mL for T-26/T-42 digestion rotor</td>
<td>100mL</td>
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<td>T-12, T-24 digestion rotor</td>
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<td>100mL for T-12 digestion rotor; 75mL for T-24 digestion rotor</td>
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| XT-9906 Microwave Digestion System |  |  |
|----------------------------------|  |  |
| Digestion rotor | Digestion rotor |  |  |
| T-6 digestion rotor |  |  |  |
| Vessel volume | Vessel volume |  |  |
| 100mL |  |  |  |