

# TRANSFORM 800 Microwave Digestion System

The TRANSFORM 800 is an automated, top-loading, closed vessel microwave digestion system offering high-pressure capabilities to enhance digestion quality while decreasing digestion time. This system is capable of simultaneously running up to 10 high-pressure closed vessels, providing a fast and automated method to digest even the most difficult samples. With simple one-step operation, full computer control of temperature and power, and monitoring of pressure, this cost-effective TRANSFORM 800 consolidates your AAS, AFS, ICP-AES, Hg-Analyzer, ICP-OES and ICP-MS applications. The TRANSFORM 800 provides optimal performance and reliable quality for sample preparation while leading the industry in safety.

#### Closed vessel digestion:

The TRANSFORM 800 has capacity for 10 high-pressure vessels capable of digesting at a working pressure and temperature of up to 800 psi and 250°C. Temperature feedback control is achieved with a sealed thermocouple probe enabling fast and accurate digestion by monitoring pressure and directly sensing and controlling temperature. The TRANSFORM 800 microwave system is more cost effective than comparable systems but has equivalent safety and performance.

#### Computer Control:

The TRANSFORM 800 is a computer-controlled system. Its software features real-time control of temperature, pressure monitoring, graphic display, automatic data storage, unlimited method storage, and complete record of instrument parameters.

#### SPECIFICATIONS

Number of Vessels	10 (9 standard+1 sensor vessel)
Operating Pressure	800 psi
Operating Temperature	250°C
Temperature Sensor	1
Pressure Sensor	1
Vessel Volume	50 mL
Electrical	220 V, 50/60 Hz, 10 A
Microwave Power	1200 W
Magnetron Frequency	2450 Mhz
Dimensions	48 (W) X 55 (D) X 48 (H) cm
Weight	50 kg

*NOTE: Instrument specifications may change without notice as an ongoing effort of product improvement.*

#### FEATURES

- Direct sensing and control of sample temperature, and monitoring of pressure in vessels to ensure reproducible digestion
- Evenly distributed microwave field throughout the chamber ensures uniform heat for each vessel
- On-line EPA protocols and methods directory, offering full compliance with EPA methods
- Flexibility to program individual methods for specific customizable sample preparation
- Automated recording of conditions during each digestion reduces volatile element loss
- Prevents sample containment from the environment
- Minimizes solvent consumption

#### Safety features:

- Round, pressure-resistant heavy-duty oven chamber made of PFA-coated stainless steel
- Top-loading, heavy duty automatic door with three level protection and safety interlocks
- Spring loaded inner cavity of lid buffers the shock in the event of heightened pressure.
- Over Pressure Valve on each vessel vents at pre-set pressure limits. In addition, each vessel also has a rupture disk, offering the highest level of safety for high-pressure situations
- Residual vessel pressure can be released manually during opening, providing extra safety to the user
- Digestion vessels are molded with engineering plastics
- Continuous temperature control and pressure monitoring

