

TRANSFORM 680 Microwave Digestion System

The TRANSFORM 680 is a top-loading, closed vessel microwave digestion system with high-pressure capabilities to enhance digestion quality while decreasing digestion time. This system is capable of simultaneously running up to 6 high-pressure closed vessels, providing a fast and automated method to digest even the most difficult samples. With simple one-step operation and full computer control of temperature and power, this cost-effective microwave digestion system consolidates your AA, ICP-AES, ICP-OES and ICP-MS applications. The TRANSFORM 680 is a cost-effective system that provides optimal performance while leading the industry in safety. The TRANSFORM 680 provides optimal performance and reliable quality for sample preparation while leading the industry in safety.

Closed vessel digestion:

Closed vessel digestion reduces contamination issues by ensuring a clean, controlled environment for each individual sample. The Transform 680 can hold 6 high-pressure vessels operating at 400 psi and 250°C. A sealed thermocouple sensor enable fast and accurate temperature control.

Computer Control:

The Transform 680 is a fully computer controlled system. Its software features direct control and sensing of temperature with real-time graphic display, automatic data storage, unlimited method storage, and complete record of instrument parameters

SPECIFICATIONS

Number of Vessels	6 (5 standard +1 sensor vessel)
Operating Pressure	400 psi
Operating Temperature	250°C
Temperature Sensor	1
Vessel Volume	60 mL
Electrical	220 V, 50/60 Hz, 10 A
Microwave Power	1200 W
Magnetron Frequency	2450 Mhz
Dimensions	48 (W) X 46 (D) X 43 (H) cm
Weight	30 kg

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

FEATURES

- Round, pressure resistant heavy duty oven chamber made of PFA-coated stainless steel with top-loading manual door
- Evenly distributed microwave field throughout the chamber to ensure uniform heat for each sample vessel
- Direct sensing and control of sample temperature in closed vessels to ensure reproducible digestion every time
- On-line EPA protocols and methods directory, full compliance with EPA methods
- Flexibility to program individual methods for specific customizable sample preparation
- Automated recording of conditions during each digestion
- Windows-based software for real-time control of temperature

Safety features:

- Top-loading with safety interlocks
- Fume exhaust module
- Rupture disks and vent detection mechanisms on each vessel which automatically shuts down power in response to over-pressure
- Teflon lining of oven cavity
- Digestion vessels molded with engineering plastics
- Continuous temperature monitoring and control
- Release of acid fumes into collection reservoir in vessel carousel
- Automatic pressure release mechanism in oven cavity

