



MAX20 Intelligent Microwave Digestion System








Precision Digestion

Safe & Efficient

Intelligent Control

Key Advantages

-  **Dual Magnetron Staggered Design**
2000W high-power microwave actual output power (2450MHz) ensures uniform and unparalleled heating rate.
-  **Real-time Infrared Temperature Control**
Vessel Auto recognizing system displays each vessel's real-time temperature in histogram. $\pm 1^{\circ}\text{C}$ accuracy in temperature range 60-400 $^{\circ}\text{C}$ with precision of $\pm 2^{\circ}\text{C}$ dynamic adjustment.
-  **Full-Vessel Pressure Monitoring**
Patented and advanced pressure control unit monitor each vessel's pressure. The vessel pressure can be regulated via seal-release-reseal integrated auto venting module allowing release of overpressure without interrupting the digestion process.
-  **Multiple Safety Insurances**
System is embedded with multiple safety guidances such as hardware auto check and diagnosing system, floating safety locked system, patented self-regulating over pressure management technology ensure the smooth reaction progress and safe vessel operation.
-  **One-Touch Operation**
Preloaded EPA, ASTM, GB, HJ, and other standard methods. Supports 40 saved protocols per rotor, 3 quick-start shortcuts.



Why MAX20?

Time-Saving:

Parallel multi-vessel processing + smart cooling reduces cycle time improving the operation time in **30%** efficiency

Durability:

316L stainless steel cavity + corrosion-resistant design prolonger the life span **50%** longer.

Global Support:

24/7 technical support in application and service.



Rotor Configurations

Rotor	GT-100	GT-160	GT-280
No. of vessels	10	16	28
Vessel material	TFM	TFM	TFM
Protective sleeve material	Reinforced PEEK	Reinforced PEEK	Reinforced PEEK
Vessel volume	100mL	100mL	60mL
Max withstanding temperature	330°C	330°C	330°C
Max withstanding pressure	150bar	150bar	120bar

Auto pressure relief

Applications

- Environmental analysis (soil/water heavy metals)
- Geology (rock, mineral, raw material)
- Food safety (nutrient testing, heavy metals)
- Pharmaceutical R&D
- Industrial QC



Technical Specifications

Microwave oven	56L Industrial grade anti corrosion resonance oven
AC input	220-240V/50Hz, 16A
Total power	3200W
Microwave output power	2000W
Microwave frequency	2450HZ
Microwave control mode	PID control
Ambient temperature	5-40°C
Ambient humidity	15%-80%RH
Size	543×625×652mm
Weight	63kg