

TANK Microwave Digestion System



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TANK Microwave Digestion System adopts the international advanced double magnetron frequency microwave heating system and realizes the high power microwave balanced magnetic field safety heating.

Microwave Digestion System has been widely used in food, textile, plastic, geological, metallurgical, coal, biological medicine, petroleum chemical industry, environmental monitoring, sewage treatment, battery manufacturing, cosmetics, etc.

Characteristics

- Double magnetron variable frequency control system: It could adjust microwave output continuously. It makes the microwave field more uniform and more accurate that could ensure the sample digestion is uniform.
- The high accuracy pressure sensor could make the pressure control more precise.
- 7" LCD color touch-screen real-time display the temperature and pressure curve.
- Built-in method library (20 methods) and the methods could be programmed.

Safety protection function

Optical fiber system

7" LCD color touch-screen

Multiple safety protection functions

It has more than ten safety protection measures to ensure experiment safety, including temperature control system, pressure control system, explosion-proof security doors, thicken cavity with multi-layer TEFLON coating, High-power exhaust system, program with suspend or start at any time. Ladder-style control temperature system, the material is TFM for the vessel and aerospace composite material for the vessel cover, the vessel cap with PFA and the pressure shrapnel use PEEK.

Optical fiber temperature control system

The TANK adopts the internationally advanced optical fiber temperature control system. It avoids producing the spark which other temperature control mode caused, effectively eliminates microwave interference temperature control system and other factors. It not only achieves precision control temperature but also it is the safest microwave digestion temperature control mode at present.

Remote Control System

TANK PRO only. Base on Wi-Fi technology, peer to peer control.

Note:“·” with the same technical index;“-”without

Specification:

	TANK PRO	TANK BASIC	TANK ECO
Cavity	48L Resonant Cavity	·	·
Teflon coating	10	8	8
Power output	1600W	·	·
Digestion method	50 preinstalled methods,programming 100 methods	20 preinstalled methods,programming 50 methods	15 preinstalled methods,programming 30 methods
Max.temperature	305°C	·	·
Temperature accuracy	±1°C	·	·
Temperature control	Fuzzy PID	·	·
Pressure accuracy	±0.01Mpa	·	·
Vessel volume	100mL	·	·
Detection of abnormal temperature&pressure	COT	—	—
Vessel Max.Pressure	80MPa	75MPa	70MPa
Video Monitor	YES	·	·
Vessel quantity	1-12/batch	1-12/batch	1-10/batch
Cooling method	Forced air cooling	·	·
Interface	USB,RS232	—	—
Wifi Module	YES	—	—
Power suppl	220VAC±10%	·	·
Detection of abnormal voltage	YES	·	·
Dimensions	520mm×595mm×660mm	·	·