

## Contact Temperature Measurement Microwave Digestion System



### Brief Introduction

AST-HP80 contact temperature measurement series closed microwave digestion system as an efficient sample pretreatment equipment, which can provide fast ,safety and clean digestion treatment for users. Also it can expedite the chemical reaction speed and depth of samples under the condition of high temperature and high pressure. So the digestion system will not damage the elements such as highly volatile silver, mercury etc. Widely applied in the chemistry industry, food analysis, environmental monitoring, disease control center, quality supervision and commodity inspection etc.

## Technical Characters

Model No.	AST-HP80
Power Supply	220-240 VAC 50/60Hz 16A
Microwave Source	2450MHz, high energy microwave field emission, dual magnetron emission
Power	2000W
Max Output Power	2000W, continuous automatic microwave control
Control Way	7-inch capacity color touch screen, Chinese/English system
Microwave Cavity	67L large volume 304 stainless steel cavity, multi-layer corrosion-resistant PFA Teflon coating
Safety Explosion-proof Door Design	Double-layer metal structure safety door, electronic & mechanical dual control
Abnormal State Check	Intelligent judgment of abnormal state inside the cavity to prevent accidents, door state monitoring, the microwave cannot be started unless the door is closed
Turntable Design	Coaxial unidirectional rotation, suitable for rotors of various tank positions
Pressure Measurement System	Piezoelectric crystal pressure transmission, measuring range: 0-20MPa (2500psi), platinum accuracy $\pm 0.01$ Mpa
Temperature Measurement Method	Platinum resistance temperature measurement: temperature range: -40-350°C, accuracy $\pm 0.5^\circ\text{C}$ , control accuracy $\pm 0.1^\circ\text{C}$
Furnace Exhaust System	High-power, corrosion-resistant axial flow fan, high-efficiency air cooling, only 20 minutes from 200°C to 70°C.
Working Environment Temperature/humidit y	Working temperature: 0-40 degrees, working humidity: 15-85%RH
External Dimension	630X530X630mm
Net Weight	55kgs

## Main Character Of Digestion Tank

Model No.	AST-HP80
Position	6-12postion
Inner Tank Material	TFM
Dissolve The Rotor Frame Structure	Independent frame structure for each digestion tank
Reaction Tank Volume	80ml
Work Pressure	15MPa(2200psi)
Maximum Temperature	200°C
HF resistant	Yes
Explosion-proof Reaction Tank	Automatic pressure relief with limited pressure, no consumable

## Operating system

- 1) 7 inch color touch screen
- 2) Real-time display the components status, and the parameters can be set and modified.
- 3) Error code database which can display the error code in real-time
- 4) Display the closed vessel temperature and pressure in real-time
- 5) Display the temperature, pressure, power curve in real-time
- 6) Storage the testing process photos which is convenient for future check or error record.