

Microwave Digestion System



HMWD-500 /600/700/750



Flexible Throughput

Multiple configurations from 6 to 40 vessels to support routine testing and high-throughput applications.



Real-time Monitoring

Contactless temperature and pressure monitoring provides real-time control of the digestion process.



Reliable Safety Design

Multiple safety protection features and a corrosion-resistant stainless steel microwave cavity ensure reliable operation.



Smart & Efficient Workflow

Intuitive touchscreen operation, programmable digestion methods and rapid cooling help simplify daily laboratory workflows.



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Aug, 2026



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Exterior View



HMWD-500

Product Advantages



Compatible with 6/8/10-position sample rotor.



No consumables, e.g. bursting disk, sealing cup, etc. lower maintenance cost.



Equip with smart 7 inches touchscreen, user-friendly UI.



Pre-installed multiple international application methods. Users can also edit, modify and delete the methods.



Professional electromagnetic protection design, compatible with high-level microwave leakage protection standards.



High power turbulent air cooling design makes fast cooling.



Equip with 316L stainless explosion-proof cavity, coated with multi-layer anti-corrosive and heat resisting coatings, which greatly prolongs its service life and ensure the safety of operation.



Germany contactless IR sensor and pressure sensor, real-time display the temperature and pressure of sample solution (**NOT Vessel Wall**) in each vessel and show T&P scanning curve.

Specifications



Model	HMWD-500		
Vessel Quantity	6	8	10
Pressure Monitoring	Contactless pressure sensor All vessels scanning monitoring		
Max. Working Pressure Range	6MPa		
Temperature Monitoring	Contactless IR sensor All vessels scanning monitoring		
Max. Working Temperature	250°C		
Temperature Accuracy	±0.1°C		
Vessel Volume	100mL		
Display	7 inches Color Touch Screen		
Rotation	360° continuous rotation		
Microwave Power	0-1000W (Adjustable)		
Microwave Frequency	2450MHz		
Cavity Volume	35L		
Microwave Leakage	<5mW/cm2		
Power	AC 220V±10%, 10A, 50/60Hz		

Exterior View



HMWD-600

Product Advantages



Compatible with 6/8/10/12-position sample rotor.



No consumables, e.g. bursting disk, sealing cup, etc. lower maintenance cost.



Equip with smart 7 inches touchscreen, user-friendly UI.



Pre-installed multiple international application methods. Users can also edit, modify and delete the methods.



Professional electromagnetic protection design, compatible with high-level microwave leakage protection standards.



High power turbulent air cooling design makes fast cooling.



Equip with 316L stainless explosion-proof cavity, coated with multi-layer anti-corrosive and heat resisting coatings, which greatly prolongs its service life and ensure the safety of operation.



Imported contactless IR sensor and pressure sensor, real-time display the temperature and pressure of sample solution (**NOT Vessel Wall**) in each vessel and show T&P scanning curve.

Specifications



Model	HMWD-600			
Vessel Quantity	6	8	10	12
Temperature Monitoring	Contactless IR Sensor Temperature Monitoring Each Vessel Temperature Controlled Temperature Controlling Range: 50-400°C Max. Working Temperature: 250°C Temperature Accuracy: ±0.1°C			
Pressure Monitoring	Contactless Sensor Pressure monitoring Each Vessel Pressure Controlled Pressure Controlling Range: 0-15MPa Max. Working Pressure: 6Mpa Pressure Accuracy: ±0.01MPa			
Vessel Volume	100mL			
Sample Vessel Material	Imported TFM			
Protection Vessel Material	PEEK+Glass Fiber			
Display	7 inches Color Touch Screen			
Rotation	One Direction 360° continuous rotating			
Microwave Cavity	316L stainless steel cavity with corrosion-proof coating			
Microwave Power	0-1000W (Adjustable)			
Microwave Leakage	<5mW/cm ²			
Air Exhaust	High power corrosion-proof air blower			
Power	AC 220V±10%, 10A, 50/60Hz			

Exterior View



HMWD-700/HMWD-750

Product Advantages



Special Designed Sample Digestion Vessel

The auto vent and self-resealing design ensures digestion vessels can automatically release pressure and instantly reseal when a sudden over-pressure situation occurs. It reduces waste of batch samples and also avoids vessel damage.



Contactless Temperature and Pressure Monitoring System

The imported contactless IR sensor can measure the real-time temperature of sample solution **(NOT Vessel Wall)** in each digestion vessel. Meanwhile, the contactless pressure sensor can monitor the real-time pressure of each vessel. It avoids sample cross-contamination, and the real-time temperature and pressure value in each vessel are displayed during the whole digestion process and enables a clear check of digestion condition.



Large Storage Capacity

Up to 255 kinds of method programs can be edited and saved, each method program can set with max. 10 steps and parameters (temperature, pressure, time, microwave power).



Safety Protection System

The double locked security door, the separate protection vessel frame, the real-time temperature and pressure monitoring system, the auto adjustment of over-pressure and over-temperature system and the abnormal sound monitoring ensure that a highly safe operation environment.

Specifications



Model	HMWD-700	HMWD-750
Vessel Quantity	12	18
Temperature Monitoring	Contactless IR Sensor Temperature Monitoring Each Vessel Temperature Controlled Temperature Controlling Range: 50-400°C Max. Working Temperature: 250°C Temperature Accuracy: ±0.10C	
Pressure Monitoring	Contactless Sensor Pressure monitoring Each Vessel Pressure Controlled Pressure Controlling Range: 0-15MPa Max. Working Pressure: 6Mpa Pressure Accuracy: ±0.01MPa	
Vessel Volume	100mL	
Sample Vessel Material	Imported TFM	
Protection Vessel Material	PEEK+Glass Fiber	
Display	7 inches Color Touch Screen	
Rotation	One Direction 360° continuous rotating	
Microwave Cavity	316L stainless steel cavity with corrosion-proof coating	
Microwave Power	0-2000W (Adjustable)	0-3000W (Adjustable)
Microwave Leakage	<5mW/cm2	
Air Exhaust	High power corrosion-proof air blower	
Power	AC 220V±10%, 10A, 50/60Hz	

Exterior View



HMWD-800

Product Advantages



Up to 40 Vessels, suitable for batch experiment.



Special Designed Sample Digestion Vessel

The auto vent and self-resealing design ensures digestion vessels can automatically release pressure and instantly reseal when a sudden over-pressure situation occurs. It reduces waste of batch samples and also avoids vessel damage.



Contactless Temperature and Pressure Monitoring System

The imported contactless IR sensor can measure the real-time temperature of sample solution **(NOT Vessel Wall)** in each digestion vessel. Meanwhile, the contactless pressure sensor can monitor the real-time pressure of each vessel. It avoids sample cross-contamination, and the real-time temperature and pressure value in each vessel are displayed during the whole digestion process and enables a clear check of digestion condition.



Large Storage Capacity

Up to 255 kinds of method programs can be edited and saved, each method program can set with max. 10 steps and parameters (temperature, pressure, time, microwave power).



Safety Protection System

The double locked security door, the separate protection vessel frame, the real-time temperature and pressure monitoring system, the auto adjustment of over-pressure and over-temperature system and the abnormal sound monitoring ensure that a highly safe operation environment.

Specifications



Model	HMWD-800
Vessel Quantity	40
Temperature Monitoring	Contactless IR Sensor Temperature Monitoring Each Vessel Temperature Controlled Temperature Controlling Range: 50-400°C Max. Working Temperature: 250°C Temperature Accuracy: $\pm 0.1^{\circ}\text{C}$
Pressure Monitoring	Contactless Sensor Pressure monitoring Each Vessel Pressure Controlled Pressure Controlling Range: 0-15MPa Max. Working Pressure: 6Mpa Pressure Accuracy: $\pm 0.01\text{MPa}$
Vessel Volume	50mL
Sample Vessel Material	Imported TFM
Protection Vessel Material	PEEK+Glass Fiber
Display	7 inches Color Touch Screen
Rotation	One Direction 360° continuous rotating
Microwave Cavity	316L stainless steel cavity with corrosion-proof coating
Microwave Power	0-3000W (Adjustable)
Microwave Leakage	$< 5\text{mW}/\text{cm}^2$
Air Exhaust	High power corrosion-proof air blower
Power	AC 220V $\pm 10\%$, 10A, 50/60Hz