

PRODUCT CATALOG



MICROWAVE DIGESTER





MICROWAVE DIGESTER BEM2BN1

GRAPHITE DIGESTER



- * Anti-corrosion design: TEFLON coating on the surface, acid/alkali proof.
- * Heating uniform and fast: Adopt graphite block(antioxidant), heating faster and energy transfer faster, temperature between holes more uniform.
- * Safety protection: adopt unique air duct insulation tech, keep the temperature ultralow, protect operator

SPECIFICATIONS

Model	BEM2BN1
Old Model	BMWD-204
Temperature Range	RT +5~450°C
Temperature Accuracy	±1°C(450°C)
Heating Method	Infrared heating and high-purity graphite conduction
Heating Insulation Method	Unique air duct insulation technology
Digestion Tube Capacity	300ml
Max. Capacity	20pcs/batch
Power Supply	AC 220 V±10%, 50HZ
Power Consumption	3600W
External Size(W*D*H)	515*458*730mm
Package Size(W*D*H)	890*600*630mm
Gross Weight	57Kg
Alt Name	Graphite Digester

APPLICATIONS

Graphite Digester adopts globally advanced high-temperature infrared radiation heating technology and microprocessor control platform, accurate temperature control and quick temperature rise. It has two kinds of temperature rise mode: linear and curve temperature rise mode, and offers 20 digestion programs for control of temperature rise curves.

MICROWAVE DIGESTER BEY1M1 BEY1M2 BEY1M3

MICROWAVE DIGESTION SYSTEM



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

- No consumables, e.g. bursting disk, sealing cup, etc. lower maintenance cost.
- Equip with smart 7 inches touch screen, user-friendly UI.
- Pre-installed multiple international application methods. Users can also edit, modify and delete the methods.
- Equip with 316L stainless explosion-proof cavity, coated with multi-layer anticorrosive and heat resisting coatings, which greatly prolongs its service life and ensure the safety of operation.
- High power turbulent air cooling design makes fast cooling.

SPECIFICATIONS

Model	BEY1M1	BEY1M2	BEY1M3	
Old Model	BMWD-101			
Vessel Quantity	6	8 10		
Pressure Monitoring	Contactless pressure sensor		essure sensor All vessels scanning monitoring	
Max. Working Pressure Range	6MPa			
Temperature Monitoring	Contactless IR sensor		tless 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			
Alt Name	Microwave Digestion System			

FEATURES

- Compatible with 6/8/10-position sample rotor.
- 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.
- No consumables, e.g. bursting disk, sealing cup, etc. lower maintenance cost.
- Equip with smart 7 inches touch screen, user-friendly UI.
- Pre-installed multiple international application methods. Users can also edit, modify and delete the methods.
- 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.
- High power turbulent air cooling design makes fast cooling.
- Professional electromagnetic protection design, compatible with high-level microwave leakage protection standards.

MICROWAVE DIGESTER BEY1N1 TO BEY1N4

MICROWAVE DIGESTION SYSTEM



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

- No consumables, e.g. bursting disk, sealing cup, etc. lower maintenance cost.
- Equipped with a smart 7 inches touch screen, user-friendly UI.
- Pre-installed multiple international application methods. Users can also edit, modify and delete the methods.
- Equip with 316L stainless explosion-proof cavity, coated with multi-layer anticorrosive and heat resisting coatings, which greatly prolongs its service life and ensures the safety of operation.
- High power turbulent air cooling design makes fast cooling.

SPECIFICATIONS

Model	BEY1N1	BEY1N2	BEY1N3	BEY1N4
Old Model	BMWD-104	BMWD-102	BMWD-103	BMWD-107
Vessel Quantity	6	8	10	12
Temperature Monitoring	Contactless IR Sensor Temperature MonitoringEach Vessel Temperature ControlledTemperature Controlling Range: 50-400°CMax. Working Temperature: 250°CTemperature Accuracy: ±0.1°C			
Pressure Monitoring	Contactless Sensor Pressure monitoringEach Vessel Pressure ControlledPressure Controlling Range: 0-15MPaMax. Working Pressure: 6MPaPressure 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/cm2			
Air Exhaust	High power corrosion-proof air blower			
Power	AC 220V±10%, 10A, 50/60Hz			
Alt Name	Microwave Digestion System			

FEATURES

- Compatible with 6/8/10/12-position sample rotor.
- 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.
- No consumables, e.g. bursting disk, sealing cup, etc. lower maintenance cost.
- Equipped with a smart 7 inches touch screen, user-friendly UI.
- Pre-installed multiple international application methods. Users can also edit, modify and delete the methods.
- Equip with 316L stainless explosion-proof cavity, coated with multi-layer anti-corrosive and heat resisting coatings, which greatly prolongs its service life and ensures the safety of operation.
- High power turbulent air cooling design makes fast cooling.
- Professional electromagnetic protection design, compatible with high-level microwave leakage protection standards.

MICROWAVE DIGESTER BEY101 BEY102

MICROWAVE DIGESTION SYSTEM



- 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

SPECIFICATIONS

Model	BEY101	BEY102	
Old Model	BMWD-108	BMWD-109	
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: ±0.1°C		
Pressure Monitoring	Contactless Sensor Pressure Monitoring; Each Vessel Pressure Controlled; Pressure Controlling Range: 0-15 MPa; Max. Working Pressure: 6 MPa; Pressure Accuracy: ±0.01 MPa		
Vessel Volume	100 mL		
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	0-2000 W (Adjustable)	0-3000 W (Adjustable)	
Microwave Leakage	<5 mW/cm²		
Air Exhaust	High power corrosion-proof air blower		
Power	AC 220V±10%, 10A, 50/60Hz		
Alt Name	Microwave Digestion System		

FEATURES

• 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 conditions.

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.

MICROWAVE DIGESTER BEY1P1

MICROWAVE DIGESTION SYSTEM



- 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 du

SPECIFICATIONS

Model	BEY1P1	
Old Model	BMWD-110	
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: ±0.1°C	
Pressure Monitoring	Contactless Sensor Pressure monitoring; Each Vessel Pressure Controlled; Pressure Controlling Range: 0-15 MPa; Max. Working Pressure: 6 MPa; Pressure Accuracy: ±0.01 MPa	
Vessel Volume	50 mL	
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	0-3000 W (Adjustable)	
Microwave Leakage	<5 mW/cm²	
Air Exhaust	High power corrosion-proof air blower	
Power	AC 220V±10%, 10A, 50/60Hz	
Alt Name	Microwave Digestion System	

ACCESSORIES FOR PURCHASE

No	Name	Description	Application
1	Heating Blocks	• Coated with PFA which is of high temperature and corrosion resistance, also extends device service life. • Equipped with AI and PID smart temperature controlling system to realize automatic temperature adjustment, also improved the accuracy. • Over-temperature protection and alarm systems greatly improves experiment safety. Sample quantity:12 Aperture and hole depth:Ф45 X 665 mm Temperature control range:RM Temperature~250°C Temperature control accuracy:±0.5°C Temperature setting resolution:0.1°C Heating power:1600 W Power:AC220V	It is mainly used for pre-heating of some food, cosmetics and organic samples to check the intensity of sample reaction before digestion; it is also used for acid removal after digestion.

2	Heating Blocks	• Coated with PFA which is of high temperature and corrosion resistance, also extends device service life. • Equipped with Al and PID smart temperature controlling system to realize automatic temperature adjustment, also improved the accuracy. • Over-temperature protection and alarm system greatly improves experiment safety. Sample quantity:20 Aperture and hole depth:Ф41x135 mm Temperature control range:RM Temperature~250°C Temperature setting resolution:0.1°C Heating power:2000 W Power:AC220V	It is mainly used for pre-heating of some food, cosmetics and organic samples to check the intensity of sample reaction before digestion; it is also used for acid removing after digestion.
3	Heating Blocks	• Coated with PFA which is of high temperature and corrosion resistance, also extends device service life. • Equipped with AI and PID smart temperature controlling system to realize automatic temperature adjustment, also improved the accuracy. • Over-temperature protection and alarm systems greatly improves experiment safety. Sample quantity:42 Aperture and hole depth:Ф32x118 mm Temperature control range:RM Temperature~250°C Temperature setting resolution:0.1°C Heating power:2000 W Power:AC220V	It is mainly used for pre-heating of some food, cosmetics and organic samples to check the intensity of sample reaction before digestion; it is also used for acid removal after digestion.













FEATURES

- Up to 40 Vessels, suitable for batch experiment.
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• 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.

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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).

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Biolab Scientific Ltd.