MICROWAVE DIGESTER BEY1P1 (BMWD-110)

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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℃; Max. Working Temperature: 250℃; Temperature Accuracy: ±0.1℃
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:Φ45 X 665 mm Temperature control range:RM Temperature~250℃ Temperature control accuracy:±0.5℃ Temperature setting resolution:0.1℃ 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 AI 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:Φ41x135 mm Temperature control range:RM Temperature~250℃ Temperature control accuracy:±0.5℃ Temperature setting resolution:0.1℃ 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:Φ32x118 mm Temperature control range:RM Temperature~250℃ Temperature control accuracy:±0.5℃ Temperature setting resolution:0.1℃ 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.

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FEATURES

• Up to 40 Vessels, suitable for batch experiment.
• Special Designed Sample Digestion Vessel
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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 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 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.

Biolab Scientific Ltd.