



**MICROWAVE DIGESTION SYSTEM**  
**LD-LMWD-A10, LD-LMWD-A11, LD-LMWD-A12,**  
**LMWD-A13**

# **MICROWAVE DIGESTION SYSTEM**

## **LD-LMWD-A10, LD-LMWD-A11, LD-LMWD-A12, LD-LMWD-A13**

### **LD-LMWD-A10**

Microwave Digestion System LD-LMWD-A10 is newly designed and fully upgraded with higher performance and safer protection system. Vessel quantity of 6 and vertical design for even distribution of microwave with multi safety protection functions. Equipped with contactless sensor monitoring with no burst disk design saves consumables cost and maintenance cost. Designed with 7 inch color touch screen with user-friendly interface for easy operation. Material used TFM material for inner vessel and PEEK glass material for outer vessel prevents corrosion. Offers free temperature and pressure measurement avoids cross contamination. It is used to dissolve compounds such as heavy metals, inorganic compounds, etc.

### **LD-LMWD-A11**

Microwave Digestion System LD-LMWD-A11 is newly designed and fully upgraded with higher performance and safer protection system. Vessel quantity of 8 and vertical design for even distribution of microwave with multi safety protection functions. Equipped with contactless sensor monitoring with no burst disk design saves consumables cost and maintenance cost. Designed with 7 inch color touch screen with user-friendly interface for easy operation. Material used TFM material for inner vessel and PEEK glass material for outer vessel prevents corrosion. Offers free temperature and pressure measurement avoids cross contamination. It is used to dissolve compounds such as heavy metals, inorganic compounds, etc.

### **LD-LMWD-A12**

Microwave Digestion System LD-LMWD-A12 is newly designed and fully upgraded with higher performance and safer protection system. Vessel quantity of 10 and vertical design for even distribution of microwave with multi safety protection functions. Equipped with contactless sensor monitoring with no burst disk design saves consumables cost and maintenance cost. Designed with 7 inch color touch screen with user-friendly interface for easy operation. Material used TFM material for inner vessel and PEEK glass material for outer vessel prevents corrosion. Offers free temperature and pressure measurement avoids cross contamination. It is used to dissolve compounds such as heavy metals, inorganic compounds, etc.

### **LD-LMWD-A13**

Microwave Digestion System LD-LMWD-A13 is newly designed and fully upgraded with higher performance and safer protection system. Vessel quantity of 12 and vertical design for even distribution of microwave with multi safety protection functions. Equipped with contactless sensor monitoring with no burst disk design saves consumables cost and maintenance cost. Designed with 7 inch color touch screen with user-friendly interface for easy operation. Material used TFM material for inner vessel and PEEK glass material for outer vessel prevents corrosion. Offers free temperature and pressure measurement avoids cross contamination. It is used to dissolve compounds such as heavy metals, inorganic compounds, etc.

## FEATURES

- Offers vessel quantity of 6, 8, 10, 12 (LD-LMWD-A10, LD-LMWD-A11, LD-LMWD-A12, LD-LMWD-A13) vessels to meet different digestion requirements
- Vertical design for even distribution of microwave
- Its controlling temperature ranges from 50 to 400°C
- Pressure controlling range is 0 to 15 MPa
- Equipped with contactless sensor monitoring with no burst disk design saves consumables cost and maintenance cost
- Real-time monitoring for both temperature and pressure of each vessel
- Imported vessel material for both sample vessel and protection vessel highly ensures safety
- Designed with 7 inch color touch screen with user-friendly interface for easy operation
- Adopts CFRP outer shell material with high strength ensures impact resistance
- Pre-installed general standard methods to save, modify and delete the method
- Material used 316L industrial stainless steel tank with multilayer teflon coating avoids acid corrosion, also improved cooling efficiency

## APPLICATIONS

Microwave Digestion System is used to dissolve compounds such as heavy metals, inorganic compounds, filters and sediments in food, textile, plastic, geology, metallurgy, coal, bio-pharmaceutical, petrochemical, environmental monitoring, wastewater treatment, battery manufacturing, cosmetics and other fields.

## SPECIFICATION

Model	LD-LMWD-A12	LD-LMWD-A13
Vessel Quantity	10	12
Temperature Monitoring System	Contactless IR Sensor, scan monitoring for each vessel	
Temperature Controlling Range	50 to 400°C	
Temperature Accuracy	± 0.1°C	
Temperature Display Accuracy	± 0.1°C	
Pressure Monitoring System	Contactless Sensor, scan monitoring for each vessel	
Pressure Controlling Range	0 to 15 MPa	
Pressure Accuracy	±0.01 MPa	
Pressure Display Accuracy	±0.01 Mpa	
Vessel Volume	100 mL	
Sample Vessel Material	Imported TFM	

Protection VesselMaterial	Peek+ Glass Fiber
Display	7 inch Touch Screen
Rotation	360° Continuous rotating
Microwave Tank	316 L stainless steel tank with corrosion-proof coating
Microwave Power	0 to 1000 W (Adjustable)
Microwave Leakage	< 5 mw/cm <sup>2</sup>
Air Exhaust	High power corrosion-proof air blower
Dimension	490 × 560 × 630 mm
Power	AC 220V±10%, 10A, 50/60 Hz
Weight	47 kg

Model	LD-LMWD-A10	LD-LMWD-A11
Vessel Quantity	6	8
TemperatureMonitoring System	Contactless IR Sensor, scan monitoring for each vessel	
Temperature Controlling Range	50 to 400°C	
DisplayAccuracy	± 0.1°C	
Temperature Display Accuracy	± 0.1°C	
PressureMonitoringSystem	Contactless Sensor, scan monitoring for each vessel	
Pressure Controlling Range	0 to 15 MPa	
Pressure Accuracy	±0.01 MPa	
Pressure Display Accuracy	±0.01 Mpa	
Vessel Volume	100mL	
Sample VesselMaterial	Imported TFM	
Protection VesselMaterial	Peek+ Glass Fiber	
Display	7 inch Touch Screen	
Rotation	360° Continuous rotating	
Microwave Tank	316 L stainless steel tank with corrosion-proof coating	
Microwave Power	0 to 1000 W (Adjustable)	
Microwave Leakage	< 5 mw/cm <sup>2</sup>	
Air Exhaust	High power corrosion-proof air blower	
Dimension	490 × 560 × 630 mm	
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