

MICROWAVE DIGESTION SYSTEM

LMWD-A12



Microwave Digestion System LMWD-A12

Microwave Digestion System LMWD-A12 is designed for smooth operation experience with great value for money and are compact making it ideal virtually for any laboratory setting. It is programmable, easy to use, low maintenance units with an exceptional feature of its outer material which is explosion proof making it safe for users.

Features

- Dense and durable pressure vessels
- Multiple safety protection functions including temperature and pressure control, explosion-proof security doors, real-time temperature
- Multiple layers of TEFLON coating of the cavity, high-power exhaust system
- Uniform sample digestion
- Real time pressure and temperature curve with 7" LCD touch screen
- Optical fibre temperature control system which avoids sparks and eliminates microwave interference, providing safe and precise digestion temperature control
- High power exhaust programme
- Double magnetron variable frequency control system: Providing a uniform and accurate microwave field
- Easy control of the system due to additional unique Wi-Fi control module

Application

Used in the food, textile, plastic, geology, metallurgy, coal, bio-pharmaceutical, petrochemical, environmental monitoring, wastewater treatment, battery manufacturing, cosmetics and other fields.

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Specification

| Model No. | LMWD-A12 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Power | 220 - 240 VAC 50 / 60 Hz 8 A |
| Microwave Frequency | 2450 MHz |
| Installed Power | 1800 W |
| Maximum Output Power | 1000 W, non-pulse continuous automatic variable frequency control |
| Turntable Design | Load 8 MP - 100 closed digestion vessels at same time |
| Pressure Measurement And Control System | Piezoelectric crystal pressure sensor, pressure control range : 0 -10 MPa (1500 psi), accuracy ± 0.01 MPa |
| Temperature Measurement And Control System | High-precision platinum resistor temperature sensor, temperature range : 0 – 300 °C, accuracy $\pm 1^{\circ}\text{C}$ |
| Outer Vessel Material | Explosion-proof outer vessel made of aerospace composite fiber |
| Inner Vessel Material | TFM material |
| Chamber Exhaust System | High-power anticorrosion axial fan, exhaust speed: 3.1 m ³ / min |
| Operating Temperature | 0 – 40 °C |
| Working Humidity | 15 - 80 % RH |
| Whole Physical Size (W x D x H) | 220 – 240 V ; AC 50 / 60 Hz |
| Net Weight | 450 x 515 x 510 mm |