



MWD-600 is a new developed microwave digestion system with all vessels temperature and pressure control. With IR temperature measurement method, our digestion system can realize real-time temperature monitoring of each individual sample. With special mechanic design, the consumable free microwave digestion system is of safety and friendly operation and durability.

Features

- 60L industrial grade chamber is made of 316 stainless steel with PFA coating to prevent emissions and corrosions.
- Contact free pressure control and IR temperature control techniques to measure pressure and temperature of each individual sample.
- Intelligent protection system will alarm and self protect when temperature and pressure turn to abnormal conditions which ensures operation safety.
- Contact free temperature and pressure measurement which avoids cross-contamination.
- Outer vessel made of PEEK glass fiber which prevents corrosion and high temperature is high quality material which assures operation safety.
- The system is design to avoid of leakage after over-pressure release which saves batch samples and solutions so as to reduce cost.
- The system releases pressure vertically to ensure safety during operation.
- The continuous 360°rotation design assures even digestion and makes system shelf life longer.
- Lid locking design with multiple protection greatly improves user's ease of handling.
- 12 vessels/batch digestion capacity improves sample preparation efficiency. Individual frame for each vessel makes operation convenient and meets different application requirements.
- Multi safety protection functions double door prevention, temperature monitoring, high temperature prevention, pressure monitoring, high pressure prevention, instruments abnormal sound monitoring, and lid locking prevention.
- No consumables are necessary for the microwave digestion system for future use which makes users more convenient.

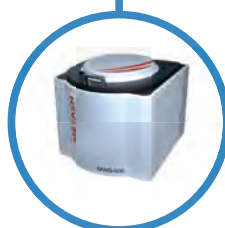
Multi Functions

- Create curve according to pressure and time and display on the touch screen
- Measure and real-time monitoring pressure without contact.
- Set corresponding temperature and time in accordance with different conditions.
- Set corresponding pressure protection in accordance with different experiment conditions.
- 8 pre-programming digestion method and can store 255 programs, users can set parameters according to users' requirements.
- Application for high pressure closed microwave digestion, multi-vessel microwave digestion, closed microwave extraction, closed microwave synthesis.
- Realize continuous 720° rotation which assures even digestion.
- The high frequency resonance type allows for adjustment between 0-2000W.
- Automatic calibration for different parameters and basic troubleshooting function.



Sample Quantity	12
Chamber	Round Oven Chamber Design
Sample	100ml
Pressure Control	Full Scanning
Pressure Measurement	Touch-free
Temperature Control	Full Scanning
Temperature Measurement	IR
Vessel Material	Inner Vessel Imported TFM, Outer Vessel Imported PEEK + Glass Fiber
Material of Explosion-Proof Frame	Polypropylene Glass Fiber
Max Working Pressure	10 MPa
Max Working Temperature	250°C
Temperature Limit	300°C
Chamber Volume	60 L
Display	8 inches touch screen
Pressure Control Range	0~6 MPa (0~60kg/cm ²)
Pressure Control Accuracy	±0.01MPa(0.1kg/cm ²)
Microwave Power	2000 W (0~2000 adjustable)
Microwave Frequency	2450MHz
Rotation Mode	360°continuous rotation
Microwave Leakage	<5mw/cm ²
Power	AC 220V, 10A, 50/60Hz
Dimension	640mm×630mm×590mm
Weight	75kg

Technical Specification



SPECTROLAB

Oxford House,
20 Oxford St.
Newbury,
Berkshire.
RG14 1JB UK.

Offices in UK, EU, Dubai

sales@spectrolab.eu sales@spectrolab.co.uk
www.spectrolab.co.uk