



MWM500/520

Microwave digestion, as a high efficient method of sample pretreatment has advantages of fast even heating ,less reagent, lower blank value, energy saving and high efficiency. It keeps sample integrity for volatile element analysis testing. It is widely used in Food, Textile,Geology, Metallurgy, Coal, Biological Medicine, Petrochemicals, Environment Waste Water Treatment, Battery Manufacturing Fields, etc.



Features

1

High quality digestion vessel

- Inner and outer digestion vessel design ensures safety for easy pressure measurement
- Imported TFM material for inner digestion vessel
- Imported PEEK and glass fiber for outer digestion vessel
- Special processing technique ensures no using of sealing bowl or explosion-proof membrane which reduces large consumable cost
- Special vessel structure design makes continuous working and automatic return to closed condition in case of digestion vessel over-pressure which ensures no sample and reagent waste
- Special mould for vessel ensures uniformity

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Multi safety protection measurements

- High precise pressure testing system to test inner vessel pressure and display it
- High precise controlling system makes instruments stop heating if inner vessel pressure is higher than limit to avoid any injury or hurt
- Sound monitoring sensor ensures the alarm and pause the instrument when there is abnormal sound
- Special protection for over-pressure or instant pressure raise
- Door can be opened if there is any abnormal circumstances, and at the same time the instrument will stop running microwave
- Self checking and prompting function, ensure the instrument will pause and prompt relevant fault during the digestion process.
- Reaction data of the closed digestion vessel will be transferred to CPU for analysis and do real-time monitoring the change during digestion procedure

Multi Functions

- Create curve according to pressure and time and display on the touch-screen
- Measure and real-time monitor the pressure without contact.
- Set corresponding protection pressure in accordance with different conditions of experiment.
- Users can set parameters in various functions according to their own requirements
- Suitable for high pressure digestion, multi-vessel closed digestion and closed organic synthesis
- Can edit and store 255 digestion programs; each program can set up 10 digestion steps; Can set relative parameters (pressure, time and microwave power) according to user's requirements.
- 360° rotation mode of digestion platform to solve heat uniformity problem.
- High frequency resonant regulation mode, Users can set microwave power between 0-1000W according to their requirements.
- Automatic calibration for different parameters and basic troubleshooting function

MICROWAVE DIGESTION

- High quality large touch-screen
- 7' inches large touch screen for easy operation
- High Resolution clear display, easy readout
- Multi parameters display; curves, pressure, timing, power, digestion procedure and operation and humanity.
- Stable and good quality display

Mode	MWD-500	MWD-520
Pressure Control	Main Tank	Full Scanning
Temperature Control	No	Full Scanning
Vessel Volume	60ml	
Pressure Testing	Non-Contact	
Temperature Testing	No	Non-contact
Sample Quantity	7	6
Vessel Material	Inner Vessel:imported TFM;Outer Vessel:Imported PEEK+glass fiber	
Maximum Working Pressure	5Mpa	
Pressure Limit	6Mpa	
Maximum Working Temperature	250°C	
Temperature Limit	300°C	
Outer Vessel Pressure Limit	10Mpa	
Display	7'Inches Touch Screen	
Pressure Control Range	0-5 Mpa(0-50kg/cm ²)	
Pressure Control Accuracy	0.1Mpa(1kg/cm ²)	
Microwave Power	1000W,Set from 0 to1000W according to requirements	
Microwave Frequency	2450MHz	
Exhaust System	High-power Blower, Exhaust speed>5m ³ /min)	
Rotation Mode	360°continuous rotation	
Microwave Leakage	<5mw/cm ²	
Power	AC220V,10A,50/60Hz	
Size	520mm*400mm*460mm	
Weight	30kg	

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