

WMD1800R



Robust Construction

- 316L industrial stainless steel, higher durability and safety.
- Multi-layer PFA coatings, acid and alkali proof, longer service life.

8 inches External Controller

- Large external controller, easier operation
- Touch screen on where graphs and working status can be displayed.

Higher Safety Protection

- Round chamber with upward-opening door ensures higher safety.

Contactless Pressure & IR Sensor

- 3 pressure sensors
- IR sensor with special waveband, which ensures accuracy and safety.
- 360 degrees scan monitoring, every digestion vessel can be monitored.

Real-time Monitoring of T&P

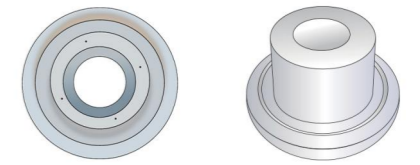
- Real-time pressure monitoring of pressure and temperature for each vessel.
- Real-time T&P graph and power running status can be shown on display screen clearly.

Frame Protection

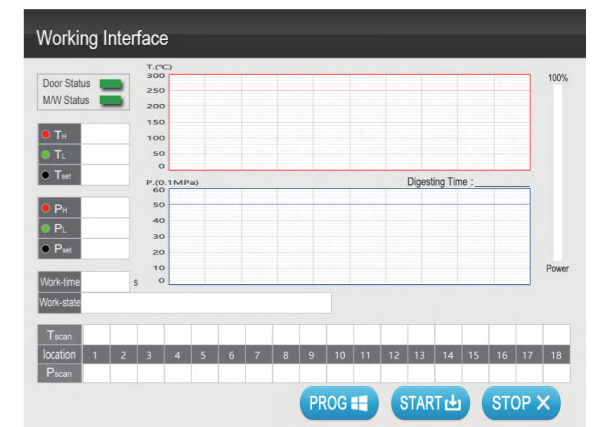
- Each digestion vessel is fixed in protection frame, providing the double protection.

Up to 12 Security Protections

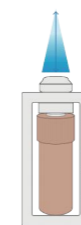
- Over pressure relief by pressure relief rings and holes.



- Explosion-proof frame for which is safer of samples with complex matrixes

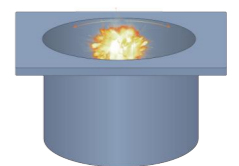


- The tank's non-contact mid-infrared temperature system collects parameters frequency. Once vessel temperature is over set value, the system will stop running to protect the vessels.



- Non-contact fiber pressure scanning monitoring system monitor each vessel pressure. Once pressure is over set value. Once pressure is over set value, system will stop running to protect the vessels.

- 316L stainless steel furnace chamber with explosion-proof design and multi-layer PFA coating for insulation and corrosion resistance.

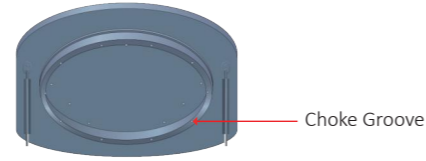


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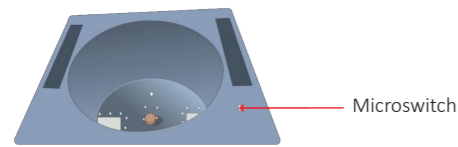
- Semi-automatic lid-opening system explosion-proof mechanical design concepts.



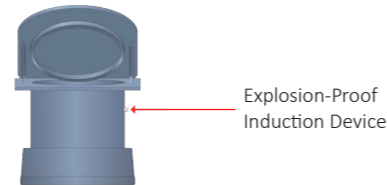
- Choke groove design increases the sealing of the whole machine and further prevents microwave leakage.



- A furnace door sensing element is used to provide additional protection against the door getting locked.



- Explosion-proof sensor on the outer chamber of the furnace chamber for emergent stop.



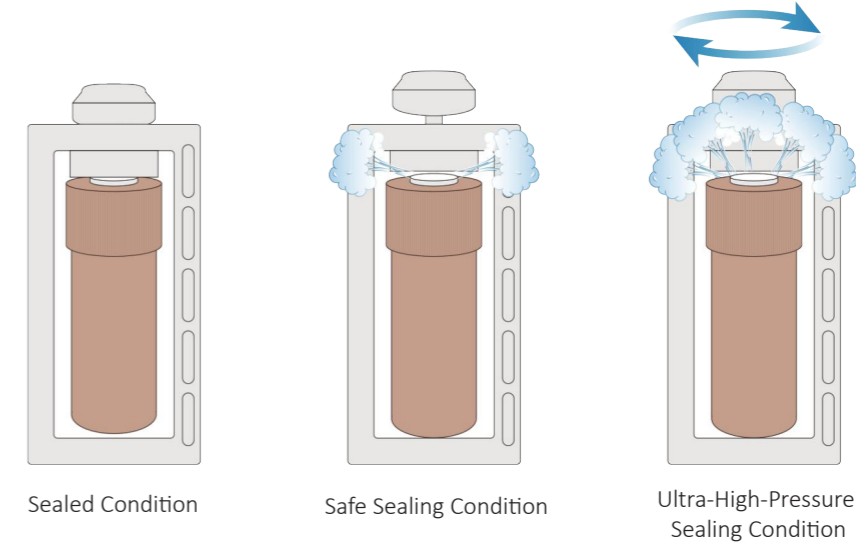
- Monitoring of strange noises in the furnace chamber for timely risk avoidance

- Function for monitoring instrument failures can accurately diagnose abnormalities and prevent obstacles, ensuring reliable equipment operation.

- Microwave's vibration emergency stop function stops microwave output when disturbed externally such as movement or tapping.

Efficient, Reliable And Trustworthy Results

- Dual magnetron configuration ensures uniform microwave output.
- Built-in turbulent air cooling system reduces cooling time by more than 2 times.
- When it is overpressured, the system will auto stop working, and the excess pressure will be released automatically through the four vents on the sealing cap and venting ring to realize dual self-venting.



Technical Specification

Model	WMD1800R
Vessel Quantity	18
Vessel Volume	100mL
Temperature Monitoring	Contactless IR Sensor
Display	7 Inches Touch Screen
Maximum Working Pressure	6 MPa
Temperature Control Range	50~400 C
Dimension	640*630*590mm
Maximum Working Temperature	250 C
Inner Vessel Temperature Limit	300 C
Rotation Mode	360 Continuous Rotation
Microwave Power	0-2000W Adjustable/ 0-3000W Adjustable
Temperature Control	Scanning Control Of Each Vessel
Pressure Testing	Contactless Pressure Sensor
Vessel material	Inner: Imported TFM Outer: Imported PEEK+Glass Fiber
Pressure Control range	0-10MPa
Pressure Control Accuracy	0.01MPa
Power	AC 220V, 16A, 50/60Hz
Weight	70KG/75KG
Temperature Control Accuracy	±0.3°C
Microwave Frequency	2450Hz
Microwave Leak	<5mw/cm ²