MDS-6G (SMART)

Closed Microwave Digestion/Extraction System

Set a new brenchmark for practical compact microwave digester

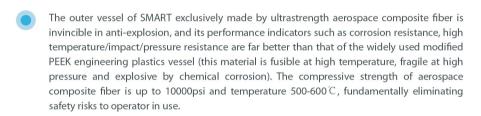
All-steel industrial grade chamber with corrosion resistance and ultra-long life

Exclusive patented multifunctional safety bolt design, instead of safety membrane and other consumables

Ultrastrength aerospace composite fiber digestion outer vessel

APrecise pressure control by piezoelectric crystal without cross-contamination problems

MDS-6G microwave digestion/extraction/synthesis system (nickname: SMART), a subversion of tradition, is a market-oriented practical compact microwave digester made by Sineo with its over 20 years' experience; It highlights the company's three major ideas of product design and also meets users' needs in "safety", "durability" and "convenience of operation."





Quantified vertical blast/safety bolt design, ensures samples be closed completely and trigger a quantified pressure relief while over pressure; safety bolt (patent) unit, instead of safety membrane and other consumables, ensure the digestion vessel be sealed completely under normal working conditions. And only when the pressure is large enough and may constitute a danger to the safety, the safety bolt will automatically blow out vertically and the cover auto-up to release the pressure, achieving quantified vertical blast pressure-relief to guarantee its well operation. Under normal operation, the safety bolt won't blow out and requires no replacement. In addition, it is easy for venting to open the cover after completion of digestion.

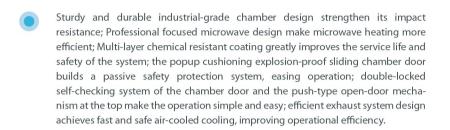
The industrial-leading pressure measuring technology by piezoelectric crystal and high-precision Pt sensor temperature measurement and control, through closed-loop control of microwave power by inverter technique, ensure the accuracy of pressure and temperature monitoring and control. The application of patented piezoelectric crystal brings about complete isolation of samples from pressure measurement system in digestion process, thoroughly solving the problems of cross contamination of samples due to commonly used air pipe in market and of the limitation in digestion samples because of low-pressure proof of air pipe.



The Gold Award in Automatic Frequency Control of Non-pulse Microwave Power on BCEIA represents that the company not only achieves the accurate closed-loop control of the temperature and pressure, but also improves the efficiency of microwave transmitter of magnetron, realizing energy saving (37.5 %).

The patented design that the whole set of digestion vessels in chamber always continuous rotates in one direction, breaks conventions of <360° back and forth rotation of the digestion unit, avoiding uneven heating on vessels by microwave and reducing impact on turntable motor, extending service life.

Popup cushioning explosion-proof sliding chamber door, locked self-checking system and the function of stop immediately when the door opened.



Concise operation panel



Long life and high brightness display Screen Push-type open-door button at the top, easy and reliable in operation



Industrial-grade chamber, solid in structure, uniform in focused microwave and superior in ventilation.

8-workstation frame digestion vessel, ultrastrength composite fiber out vessel, patented overpressure relief design, eliminating explosion-proof membrane and other consumables.