

STALWART

Microwave Digestion System SMD-20 Series



Features

- Vent and Self-reseal digestion vessel: self vent and reseal structure with patented law ensures that vessels will release pressure and instantly reseal when a sudden over pressurization occurs. This prevents waste of batch samples and solutions, and also avoids sample vessel damage.
- Temperature-pressure monitoring/protection system: Advanced contact less temperature control technology which measures real temperature of solution in each digestion vessel. Meanwhile, it adopts multi-fiber to monitor pressure in a contact less way. This realizes isolation between temperature and pressure control system, avoids cross-contamination of all samples and also ensures temperature and pressure monitor and control for each every vessel.
- All temperature and pressure data are displayed in real me during the microwave run, allowing a visual check of digestion conditions. It prevents over-pressurization and over-heating.
- Large storage capacity: can edit and store 255 programs according to user's requirements and each method program can set parameters(temperature, pressure, me, microwave power) according to their own requirements which provides convenient operation for users.
- Multi safety protection functions: high strength double security door, temperature monitoring, high temperature prevention, pressure monitoring, high pressure prevention, instruments abnormal sound monitoring
- Power and power regulation mode: using variable frequency resonance or non pulse (optional) continues rotating mode to ensure high efficient and even microwave throughput. Users can adjust it according to user's requirement between 0~3000W

Specification

Item	SMD-20	SMD-25
Pressure control	12 vessels	18 vessels
Temperature control	12 vessels	18 vessels
Vessel volume	100 ml	100 ml
Pressure testing	contactless	contactless
Temperature testing	No-contact	No-contact
Vessel material	inner:imported TFM outer:imported PEEK+glass fiber	inner: imported TFM outer: imported PEEK+glass fiber
Display	8"inch touch screen external	8"inch touch screen external
Pressure control range	0-10MPA	0-10MPA
Maximum working pressure	6 MPA	6 MPA
Pressure control accuracy	0.01MPA	0.01MPA
Temperature control range	50~400°C	50~400° C
Power	AC 220V,16A,50/60HZ	AC 220V,16A,50/60HZ
Dimension	640*630*590mm	640*630*590mm
Weight	70kg	75kg
Maximum working temperature	250°C	250°C

Specification

Temperature control accuracy	±0.3°C	±0.3° C
Inner vessel temperature limit	300°C	300° C
Microwave frequency	2450HZ	2450HZ
Rotation mode	360 continuous rotation	360 continuous rotation
Microwave leak	<5mw/cm2	<5mw/cm2
Microwave power	0-3000W adjustable/0-2000W adjustable	0-3000W adjustable/0-2000W adjustable