

Microwave extraction equipment

Advantages and features of microwave extraction equipment:

- 1.High extraction quality.It is beneficial to polar and thermal unstable compounds, avoiding thermal decomposition caused by prolonged exposure to high temperature, and can effectively protect functional components in food, medicine and other chemical materials;
- 2.It has high selectivity to extractant, extractant with high purity and high extraction rate;
- 3.Energy-efficient.The reaction separation speed is fast, can save more than 50% time;
- 4.Less solvent, more than 50% less extraction solvent than conventional methods;
- 5.Green environmental protection, safety and health, no "three waste" generate;
- 6.It has advanced technology, simple production equipment, it is easy to control and could save investment.

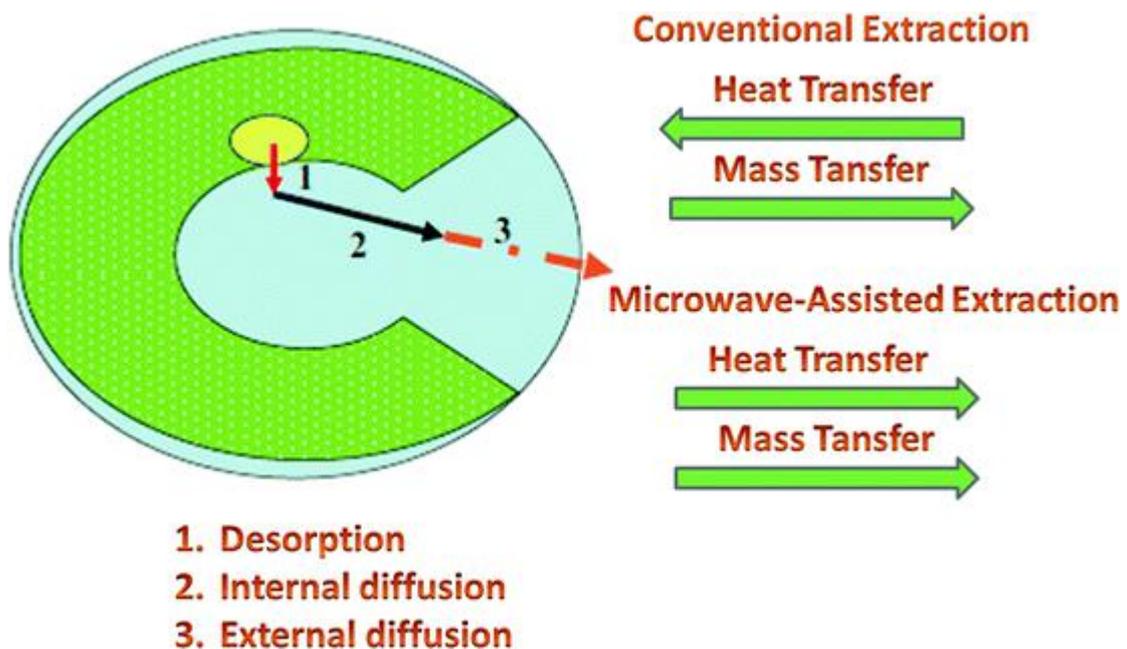
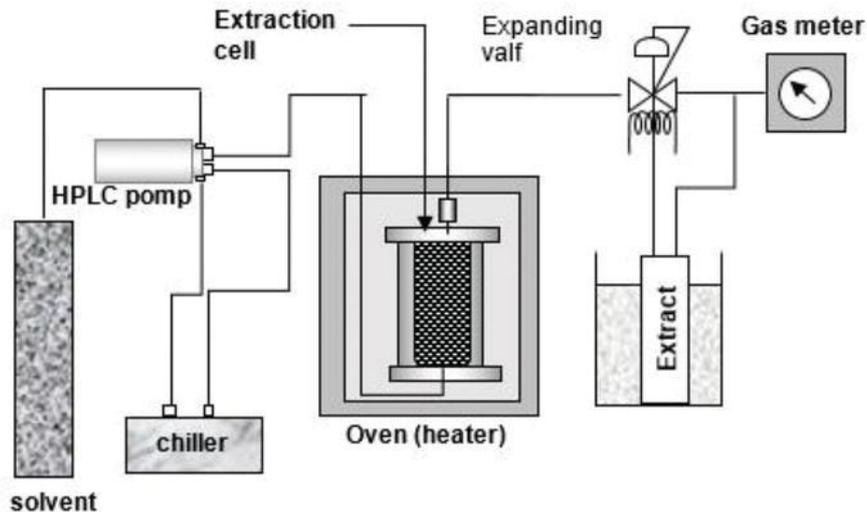
Microwave extractors are also divided into vegetable microwave extractors, food microwave extractors, chemical microwave extractors.We are sure that you will be satisfied with our high quality products, if you need more detailed information, please feel free to contact us!

			
10K Microwave extraction equipment	20kw Microwave extraction equipment	30kw Microwave extraction equipment	Higher power microwave extraction equipment can be customized

Product specification:

Microwave extraction equipment	
Microwave frequency	915 ± 25MHz
Microwave power	Above 20kw-200kw (continuously adjustable)
Transfer speed	0.1~3m/min frequency
Microwave leakage	≤5mw/cm ² (GB5959.6-87)
Extraction quantity	0.5~1.0T/ h
Hourly capacity	5 to 7 T

External dimensions of equipment	Length x width x height 8000×5000×2300 (mm) (customizable)
Control mode	Touch screen、PLC control



Microwave-assisted extraction (MAE) is a process that removes solutes from a solid matrix into a solvent. Phenomena such as electromagnetic transfer, heat transfer, mass transfer, and momentum transfer make the process complex. For developing process engineering, the characteristics of heat and mass transfer are extremely significant.

Accurate and controlled heat is possible because of the capacity of microwave radiation to

penetrate and combine with a substrate. Therefore, the microwave procedure can be designed to transport electromagnetic energy with specific power to the location of the compounds of interest in the substrate. The energy-saving factors and short processing times lead to a reduction in manufacturing costs, and improvement of product uniformity and yields, resulting in products with high quality compared with other extraction techniques.

Dielectric constant of some commonly used solvents:

Solvent	Dielectric constant (20°C)
Hexane	1.89
Toluene	2.4
Dichloromethane	8.9
Acetone	20.7
Ethanol	24.3
Methanol	32.6
Water	78.5

When purchasing machinery equipment, please choose the machinery manufacturer with best quality, easy operation, environmental protection and energy saving.

Industrial microwave Equipment has been sold all over the world for many years, many loyal customers inspected for you, you can buy it without worry. Before and after the purchase, we will provide you with a variety of free consulting services, and also can tailor the plant design for you according to equipment and site conditions.