

## Microwave Extraction Equipment

### Advantages and characteristics of microwave extraction equipment:

1. **High extraction quality.** It is beneficial to the polarity and thermal instability of compounds, avoids thermal decomposition caused by high temperature for a long time, and can effectively protect functional components in food, medicine and other chemical materials.
2. **It has high selectivity for extracts,** high purity and high extraction rate.
3. **High efficiency and energy saving.** The reaction separation speed is fast and more than 50% time can be saved.
4. **Solvent consumption is less** and more than 50% of extraction solvent is saved compared with traditional method.
5. **Green environmental protection,** safety and hygiene, no "three wastes" generated;
6. **Advanced technology,** simple production equipment, easy to control and save investment.

Whether in equipment or the configuration of the whole parts, the company has chosen international and domestic well-known brands of accessories to ensure quality, protect the safety of use, which is why we are one of the world's best manufacturers of microwave extraction machinery. Microwave extractor include vegetable microwave extractor, **microwave thawing equipment**, food microwave extractor and chemical microwave extractor. We are sure that you will be satisfied with our high quality products. If you need more details, please feel free to contact us!

			
10KW Microwave extraction equipment	20KW Microwave extraction equipment	30KW Microwave extraction equipment	More power microwave extraction equipment can be customized

### Product Specification:

	Microwave extraction equipment
Microwave frequency	915±25MHz
microwave power	20kw-300kw ( Continuously adjustable )
Transmission speed	0.1~3m/min 0.1-3m/min variable frequency speed regulation
Microwave Leakage Standard	≤5mw/cm <sup>2</sup> (GB5959. 6-87)

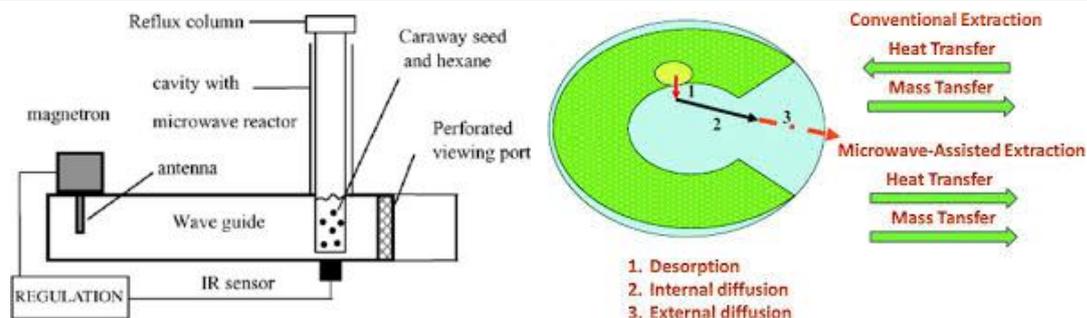
Extraction capacity	20kg~300kg/ h
Size	长×宽×高 8000×5000×2300 (mm) (可定制)
Control mode	Touch screen and PLC control

Microwaves are electromagnetic waves made up of two oscillating perpendicular fields: electrical field and magnetic field. They can be used as information carriers or as energy vectors. This second application is the direct action of waves on a material which is able to absorb a part of electromagnetic energy and to transform it into heat.

In order to avoid interferences with radiocommunications, domestic and industrial microwaves generally operate at 2450 MHz and occasionally at 0.915 GHz in USA or at 0.896 GHz in Europe. This frequency corresponds to a wavelength of 12.2 cm and an energy of 0.23 cal/mol ( $\frac{1}{4}$  0.94 J/mol) and can only cause rotation of molecules.

### Electromagnetic spectrum:

X rays	0.1 Å-10 nm	Inner-shell electrons
Ultra Violet	10 nm-0.4 μm	Outer-shell electrons
Infrared	0.4 μm-0.8 μm	Molecular vibration
Microwaves	0.8 μm-0.75 mm	Molecular rotation



For purchasing machinery and equipment, please choose a machine manufacturer with excellent quality, easy operation, environmental protection, energy saving and good service. Industrial microwave Equipment has been sold all over the world for many years. Many loyal customers will check it for you and buy it without worry. Before and after the purchase, we will provide you with free consultation services, but also comprehensive equipment and venues and other conditions for you to tailor-made plant design. If you visit, we will have professional and technical service personnel to answer your questions. If you have any idea, please feel free to contact us!