

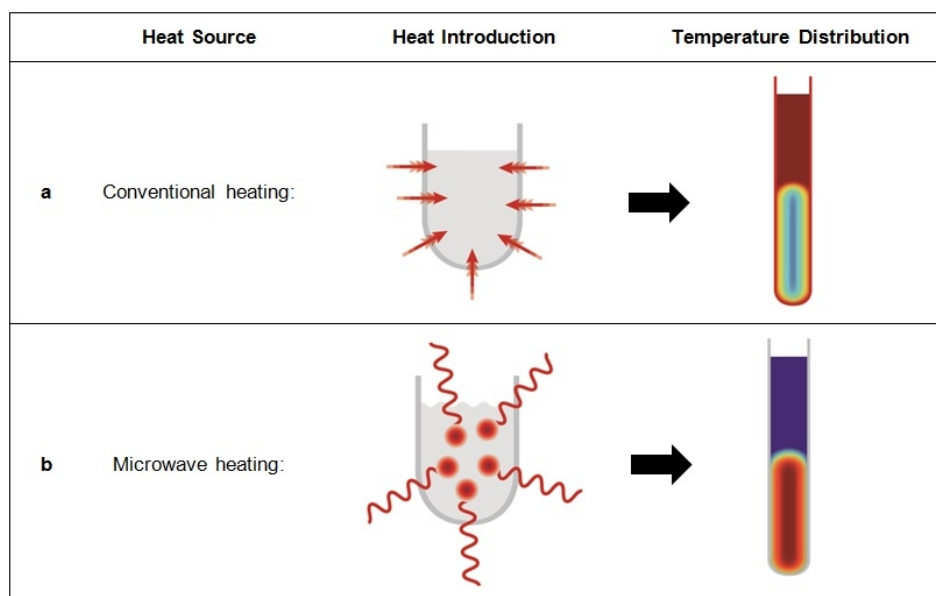
## Microwave Digester System

Acid digestion is one of the most important sample preparation techniques. By means of acid digestion a sample is destroyed or dissolved by the use of acids and only the (trace) metals remain in solution. Microwave Digester System is specifically designed for closed vessel acid digestion. In this system, the sample is exposed to a strong acid in a closed vessel and the vessel is heated in the microwave system. Reproducible sample digestion is achieved through precise reaction control of temperature and pressure. The instrument has become popular and is widely used in food, geological, metallurgical and petrochemical industry. It provides rapid, safe and efficient digestion.



Microwave digestion system offer several distinct advantages over open digestions:

- **Fast heating rates:** Microwaves pass through the vessel wall and heat the reaction mixture on a molecular basis – by direct interaction with the molecules.
- **Loss of volatile elements is prevented.**
- **No direct contact to a heating core is required, enabling the heating of different vessel sizes, shapes, and amounts with the same microwave.**



Simplified schemes of the heat distribution in a:  
(a) Conventionally heated reaction mixture  
(b) Microwave heated reaction mixture

For charging and staff in-charge information, please refer to the [charges for the use of instrument](#).