



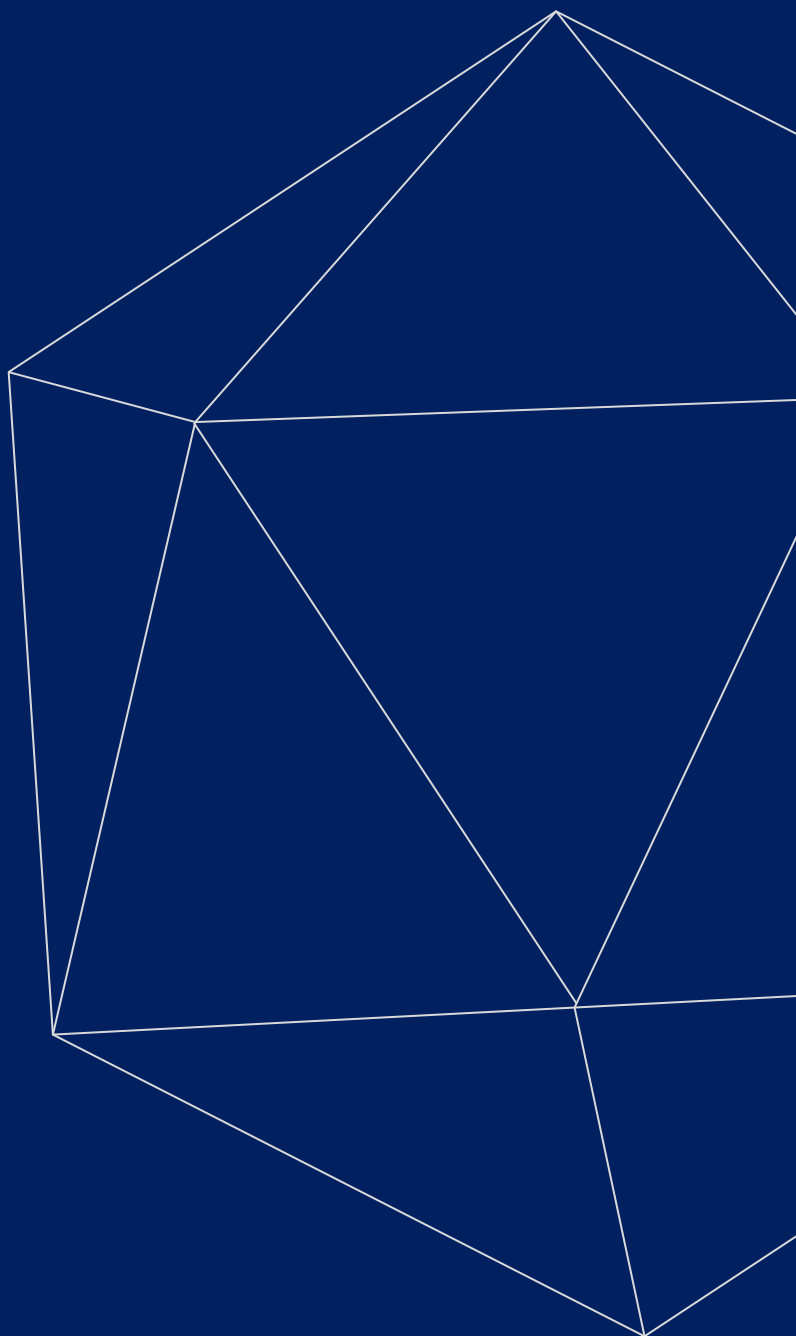
LABORATORY LINES

MICROWAVE DIGESTION SYSTEM



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Microwave Digestion System

Model Serie YR04953 to YR04960



Features:

- ✓ 316L industrial stainless steel cavity with multilayer Teflon coatings
- ✓ Dual magnetron for round models (one for YR04953 to YR04956 series)
- ✓ 360° continuous rotation in one direction enhances the uniform distribution of microwaves
- ✓ No consumables
- ✓ 8 pre-stored digestion methods, and able to edit and store 255 methods according to actual needs
- ✓ Upper clamshell design for the door for round models, not only conforms to the concept of explosion-proof mechanics, but also could use smoothly for operators and close more tight

Rotors

- ✓ Rotors of YR series
- ✓ Rotors of round models
- ✓ Working pressures & temperatures
- ✓ Principle of T & P measurement
- ✓ Principle of overpressure release

Working Temperature & Pressure

For all models:

- ✓ Temperature control range: 50-400°C
- ✓ Maximum working temperature: 250°C
- ✓ inner vessels T limit: 300°C
- ✓ Pressure control range: 0-10 MPa
- ✓ Maximum working pressure: 6 MPa

Principle of T&P measurement

Temperature:

- ✓ Contactless IR sensor adopts particular wavelength range to directly measure The temperature of samples through inner vessels.
- ✓ Located at the bottom of the furnace chamber, temperature of each sample is Measured as the rotor rotates.
- ✓ All vessels monitoring

Digestion vessel has two parts, inner vessel and outer vessel. Inner vessels is for samples, outer vessel is for protection and signal reception.

- ✓ Vessel's material
- ✓ Inner vessel: TFM
- ✓ Outer vessel: peek+glass fiber
- ✓ Vessel volume: 100 ml

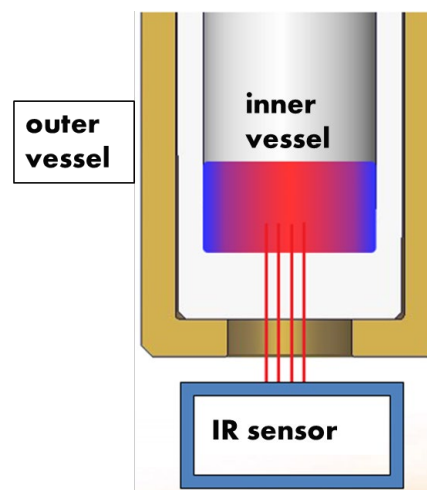


Digestion Vessel:

- ① Outer Vessel
- ② Inner Vessel



- ① Outer Vessel Body
- ② Cover Assembly
- ③ Inner Vessel Body
- ④ Sealing Cover



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Microwave Digestion System

Model Serie YR04953 to YR04960



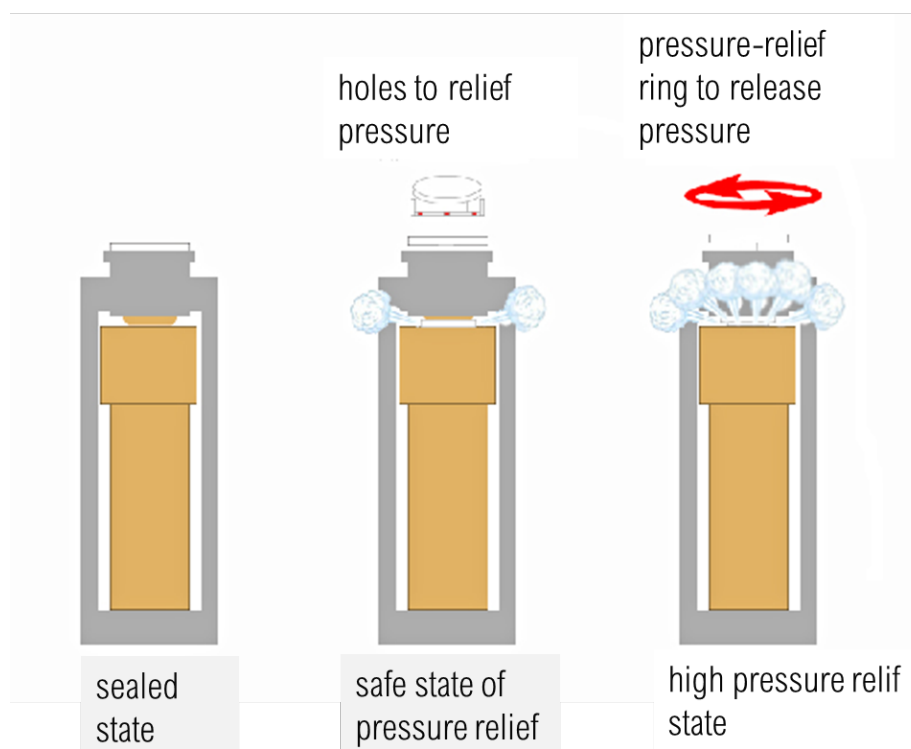
Principle of T&P measurement

Pressure measurement:

- ✓ Contactless pressure sensor
- ✓ Optical distance measurement
- ✓ pressure sensor is located at the top of the furnace chamber, and the signal board receives and sends the light signal back to the sensor, then the pressure will be given by the distance conversion.
- ✓ All vessels monitoring

Principle of overpressure release

- ✓ Zero-consumable self-recovery high pressure digestion combination vessel, which provides a more powerful support for non-contact pressure control.
- ✓ There are pressure relief holes on the outer tank cover to help pressure relief



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Microwave Digestion System

Model Serie YR04953 to YR04960



Rotors

- There are 4 rotors for option, 6/8/10/12 vessels.



6 vessels



12 vessels

- If the user needs to change 6-vessel rotor to 12-vessel one, it only needs to change the sample rotor, and add more vessels to then set the instrument for 12 vessels.



6-vessel rotor



12-vessel rotor



Rotors of round models

YR04957 & YR04958

- There are 2 options:
YR04957 is 12 vessels
YR04958 is 18 vessels
- At present, it is unable to switch rotors between this two models.



12 vessels



18 vessels



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Microwave Digestion System

Model Serie YR04953 to YR04960



Rotors of round models

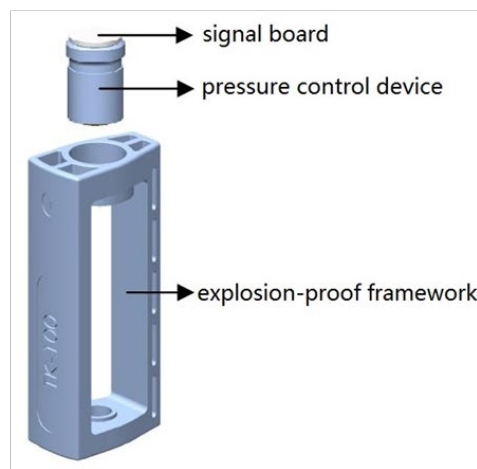
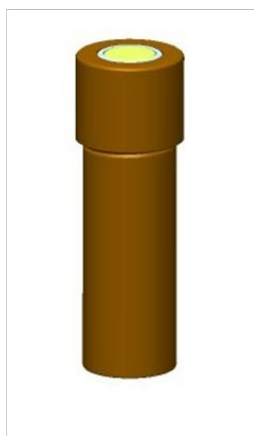
YR04957 and YR04958

Digestion vessels has 3 parts:

- ✓ Inner vessel, outer vessel and explosion-proof framework.
- ✓ Vessel's material
- ✓ Inner vessel: TFM
- ✓ Outer vessel: peek+ glass fiber
- ✓ Frame: Polypropylene and Glass Fiber
- ✓ Sample volume: 100 ml
- ✓ Explosion-proof framework enhances security performance



Digestion Vessel



This series also has 2 options:

YR04959 is 40 vessels

YR04960 is 50 vessels

- ✓ At present, it is unable to switch rotors between this two models.
- ✓ Sample volume: 50 ml



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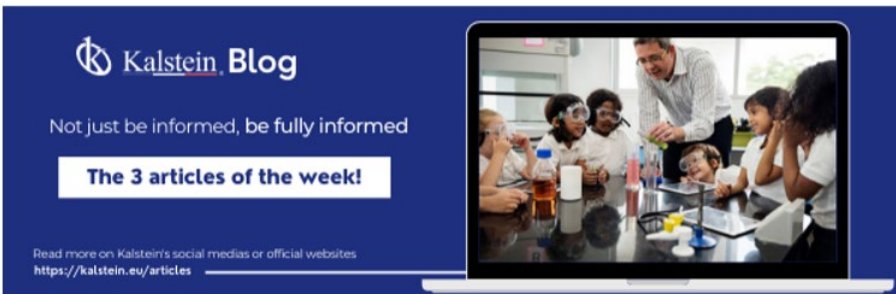
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