



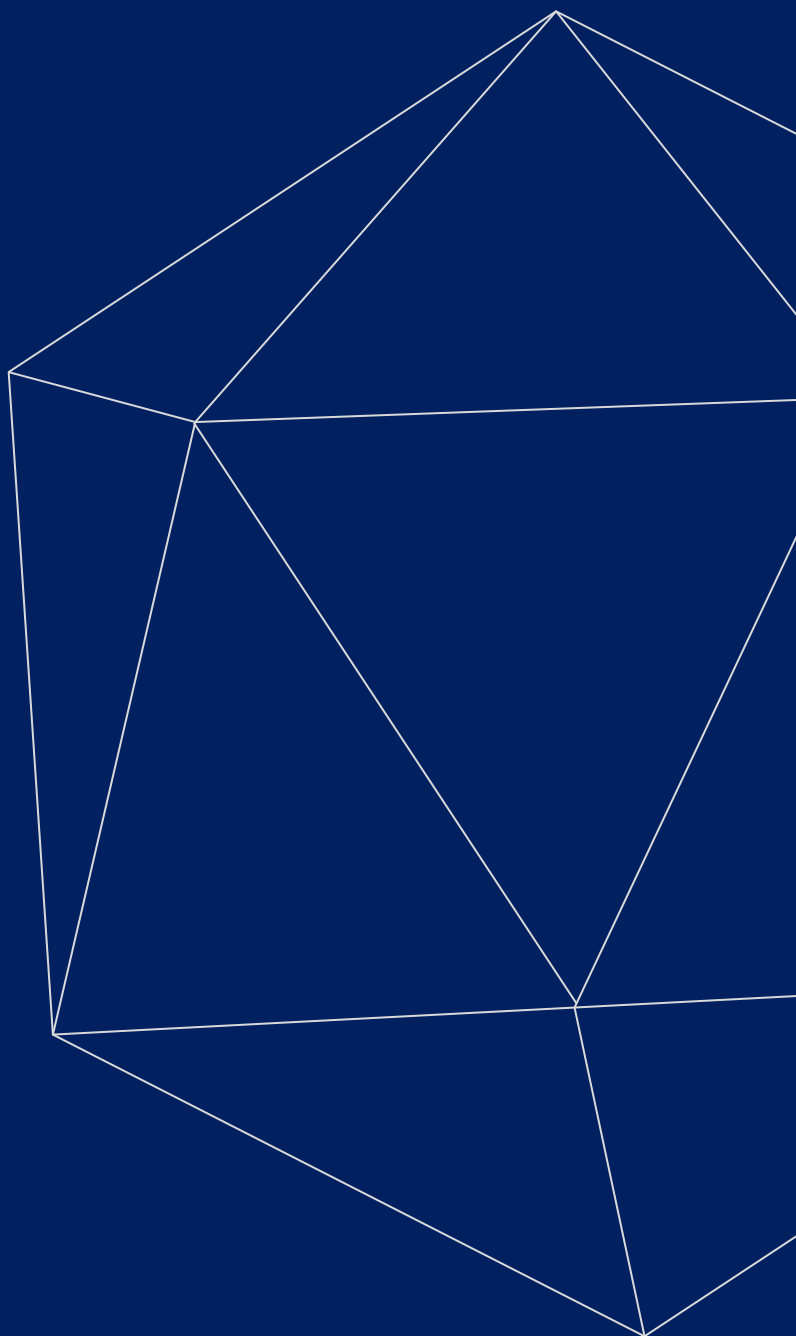
# LABORATORY LINES

## MICROWAVE DIGESTION SYSTEM



**Kalstein**®

A different accompaniment, at your service





# Kalstein®

A different accompaniment, at your service

OUR SERVICES

## Benefits and Support

In Kalstein France, we take care of the full satisfaction of our customers, that is why we provide value-added services of the highest level based on our experience.



### Online Inductions and Trainings

In any part of the world, receive your induction or training from our specialized team of engineers



### Quick Response

Our work team is always available to response all your consults or questions, in order to support you in any situation.



### #Letsgivemore ♥

Thanks to your purchase, a donation will be made to a non-profit foundation that fights against breast cancer and helps most vulnerable communities.



### Technical Support

Enjoy of personalized advice for the correct preventive and corrective maintenance of your equipment, thanks to Kalstein's manuals and articles, special catalogues and video tutorials.



### Delivery Logistics

We take care of all the necessary logistics for the dispatch of your goods, whether is by sea, land or air.



### Kalstein Worldwide

With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.



## Microwave Digestion System Model Serie YR04957



### Special Designed Sample Digestion Vessel

The automatic vent and self-resealing structure which won national patent ensures the digestion vessels can automatically release pressure and instantly reseal when a sudden over-pressure situation occurs. It prevents waste of batch samples and solutions and also avoids vessel damage.

### Contact-less Temperature and Pressure Monitoring System

The advanced contact-less IR sensor could measure the real-time temperature of sample solutions in each digestion vessel. Meanwhile, the contact-less pressure sensor could monitor the real-time pressure of each vessel. This realizes isolation between temperature and pressure controlling system, also avoids sample cross-contamination. Each real-time temperature and pressure value is displayed during the whole digestion process, allowing a clear check of digestion conditions.

### Large Storage Capacity

It can edit and store 255 types of programs according to user's requirements and each method program can set parameters (temperature, pressure, time, microwave power) according to their own requirements which provides convenient operation for users.

### Safety Protection System

With high-strength double locked security door, the real-time temperature and pressure monitoring, automatic adjustment of over-pressure and over-temperature and abnormal sound monitoring, the device can run in a highly safe environment.

### Power Adjustment

The variable frequency resonance or non-pulse(optional) continues rotating mode ensures high efficient and even microwave throughput. It can be set between 0~3000W according to user's requirements.

### Quality components

- ✓ 360° continuous rotor makes the rotation in a same direction. It ensures even and complete digestion, also reduces the wear and tear of motor, which greatly extend its service life.
- ✓ Color 7 inches LCD touch-screen displays the real-time temperature and pressure, also the working time and tendency curves.
- ✓ The material of sample digestion vessel is imported TFM. For outer protection vessel, it is imported PEEK and glass fiber which could prevent high temperature, high pressure and acid corrosion.



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## Microwave Digestion System

Model Serie YR04957



### YR04957

### YR04958

Vessel Quantity	12	18
Temperature Monitoring System	Contactless IR Sensor Temperature Monitoring Each Vessel Temperature Controlled Temperature Controlling Range: 50~400°C Temperature Accuracy: ±0.3°C Display Accuracy: ±0.1°C	
Pressure Monitoring System	Contactless Sensor Pressure monitoring Each Vessels Pressure Controlled Pressure Controlling Range: 0~10MPa Pressure Accuracy: ±0.01MPa Display Accuracy: ±0.01Mpa	
Vessel Volume	100mL	
Sample Vessel Material	Imported TFM	
Protection Vessel Material	Peek+Glass Fiber	
Display	7 inch Color Touch Screen	
Rotation	One Direction 360° continuous rotating	
Microwave Tank	316L stainless steel tank with corrosion-proof coating	
Microwave Power	0-2000W (Adjustable)	0-3000W (Adjustable)
Microwave Leakage	<5mw/cm2	
Air Exhaust	High power corrosion-proof air blower	
Power	AC 220V±10%, 10A, 50/60Hz	
Dimension	640×630×590mm (L×W×H)	
Weight	70KG/75KG	



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## Microwave Digestion System Model Serie YR04959



### Special Designed Sample Digestion Vessel

The automatic vent and self-resealing structure which won national patent ensures the digestion vessels can automatically release pressure and instantly reseal when a sudden over-pressure situation occurs. It prevents waste of batch samples and solutions and also avoids vessel damage.

### Contact-less Temperature and Pressure Monitoring System

The advanced contact-less IR sensor could measure the real-time temperature of sample solutions in each digestion vessel. Meanwhile, the contact-less pressure sensor could monitor the real-time pressure of each vessel. This realizes isolation between temperature and pressure controlling system, also avoids sample cross-contamination. Each real-time temperature and pressure value is displayed during the whole digestion process, allowing a clear check of digestion conditions.

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It can edit and store 255 types of programs according to user's requirements and each method program can set parameters (temperature, pressure, time, microwave power) according to their own requirements which provides convenient operation for users.

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With high-strength double locked security door, the real-time temperature and pressure monitoring, automatic adjustment of over-pressure and over-temperature and abnormal sound monitoring, the device can run in a highly safe environment.

### Power Adjustment

The variable frequency resonance or non-pulse(optional) continues rotating mode ensures high efficient and even microwave throughput. It can be set between 0~3000W according to user's requirements.

### Quality components

- ✓ 360° continuous rotor makes the rotation in a same direction. It ensures even and complete digestion, also reduces the wear and tear of motor, which greatly extend its service life.
- ✓ Color 7 inches LCD touch-screen displays the real-time temperature and pressure, also the working time and tendency curves.
- ✓ The material of sample digestion vessel is imported TFM. For outer protection vessel, it is imported PEEK and glass fiber which could prevent high temperature, high pressure and acid corrosion.



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# Microwave Digestion System

Model Serie YR04959



**YR04959**

**YR04960**

Vessel Quantity	40	50
Temperature Monitoring System	Contactless IR Sensor Temperature Monitoring Each Vessel Temperature Controlled Temperature Controlling Range: 50~400°C Temperature Accuracy: ±0.3°C Display Accuracy: ±0.1°C	
Pressure Monitoring System	Contactless Sensor Pressure monitoring Each Vessels Pressure Controlled Pressure Controlling Range: 0~10MPa Pressure Accuracy: ±0.01MPa Display Accuracy: ±0.01Mpa	
Vessel Volume	50mL	
Sample Vessel Material	Imported TFM	
Protection Vessel Material	Peek+Glass Fiber	
Display	7 inch Color Touch Screen	
Rotation	One Direction 360° continuous rotating	
Microwave Tank	316L stainless steel tank with corrosion-proof coating	
Microwave Power	0-3000W (Adjustable)	0-3000W (Adjustable)
Microwave Leakage	<5mw/cm2	
Air Exhaust	High power corrosion-proof air blower	
Power	AC 220V±10%, 10A, 50/60Hz	
Dimension	640×630×590mm (L×W×H)	
Weight	78KG	



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**2**  
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**What is the importance of the laboratory refrigerator?**  
A refrigerator in a laboratory is one of the most important equipment. It is used to maintain, in a controlled environment (refrigerated space), various fluids and substances.

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