

LABORATORY EQUIPMENT | MICROWAVE DIGESTION

# Speedwave Entry

## The Efficient One

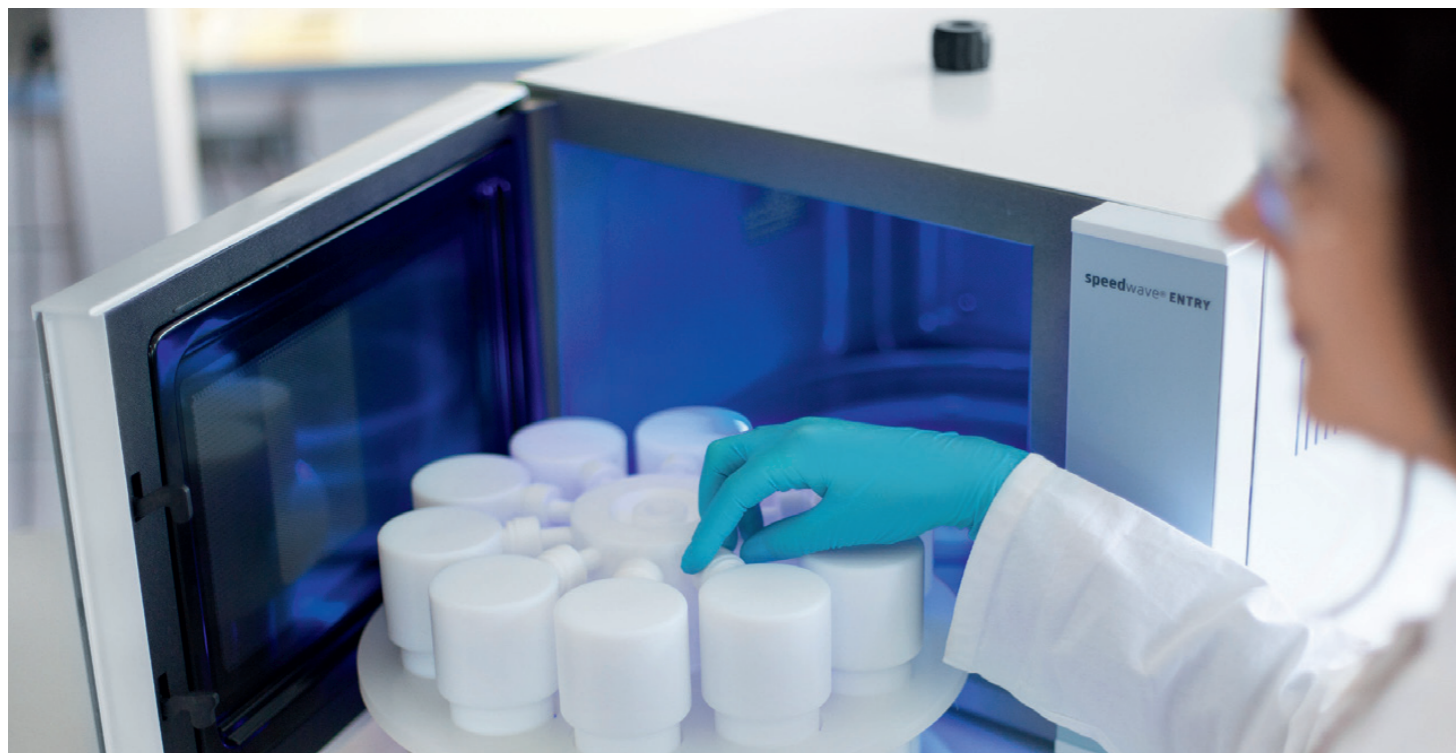
# Speedwave Entry

## Look at the essential

Especially in routine analysis, where large amounts of samples must be cost-effectively digested within tight time frames, there is a demand for microwave digestion systems that don't need a lot of accessories.

Speedwave Entry perfectly matches with these requirements. By concentrating on what's important, the system enables the best digestion results with the greatest possible safety.

The intelligent device concept speaks for itself: the integrated thermometer facilitates reliable reaction control without reference vessels, an additional exhaust system ensures greater safety and efficiency, and the illuminated oven chamber allows you to take a look behind the scenes. In combination with intuitive software, Speedwave Entry is easy to get to grips with and guarantees exceptional digestion quality.



# The perfect beginner's model

## All the benefits at a glance

### → User-friendly

Quick and easy to start: the high-quality TFM™-PTFE digestion vessels consist of only three components and can be opened and closed manually without the need for special tools. The software offers a range of applications that are key in routine analysis, and can be started by only two key presses.

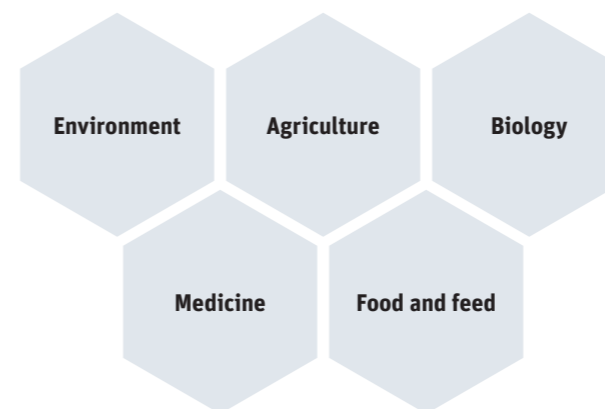
### → Safe

Optimised for improved safety: if the rupture disc breaks, the integrated gas collection system safely collects all nascent gases and discharges them without risk. Thanks to the constant evacuation of the oven chamber during operation, possible emissions are effectively removed.

### → Cost-effective

Ideal for use in routine analysis: the compact, secure construction and ease of operation make this a flexible laboratory tool. Efficient and with high technical standards – the microwaves guarantee high-quality digestion at optimum capacity.

### → Versatile applications



## Berghof

We provide the perfect solution

Berghof now looks back on over 40 years of experience and expertise in the manufacture of digestion systems for sample preparation in analytical chemistry. We develop innovative products and services in consultation with our customers.

Our experts would be delighted to advise you in selecting the right digestion system or a solution tailored to your needs.

We look forward to receiving your request.

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# Easy, safe and efficient

Ideal for routine analysis, training and study

## Corrosion-resistant oven coating

## Exhaust system connection

- The additional exhaust system allows samples to be cooled more quickly
- Maximum sample throughput possible

## Vessel made of TFM™-PTFE

- Easy to handle thanks to only three components
- Manual opening and closing without tools
- High digestion quality vessels made of isostatically moulded TFM™-PTFE with improved surface structure and minimum porosity
- The Berghof guarantee also covers vessels

## Integrated gas collection system

- Safe collection and removal of gases released

## InSight

- Illuminated oven chamber
- Rotor and sample vessels can be viewed throughout the entire digestion process

## QuickStart

- Intuitive operating software
- Only requires two key presses to start
- Pool of pre-installed applications, including the latest DIN and EPA standards
- Individually programmable temperature program

## speedwave® DIRC

- The sample temperature is measured optically without the need for reference vessels
- Contact-free measurement of thermal radiation in the mid infrared range, in which TFM™-PTFE and quartz materials cannot absorb radiation
- Filtering out infrared radiation emitted from the surface of the pressure vessels makes this process extremely precise
- Reliable reaction control through real-time temperature detection



# Speedwave Entry

## Technical specifications



Speedwave Entry	
<b>Magnetron power</b>	1,000W (DAP-60K: 100 W per digestion vessel)
<b>Controller</b>	Colored, multi-language touchscreen
<b>Interfaces</b>	USB, RS-232
<b>Pressure control</b>	Excess pressure protection by rupture disc
<b>Temperature measurement</b>	Patented DIRC thermometer
<b>Vessel material</b>	Isostatically-moulded TFM™-PTFE, Quartz
<b>Vessel types</b>	DAP-60K: 60 ml capacity, 40 bar (580 psi) DAQ-10: 10 ml capacity, 75 bar (1,090 psi)
<b>Guarantee</b>	12 month, including digestion vessel

### Berghof Products + Instruments GmbH

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