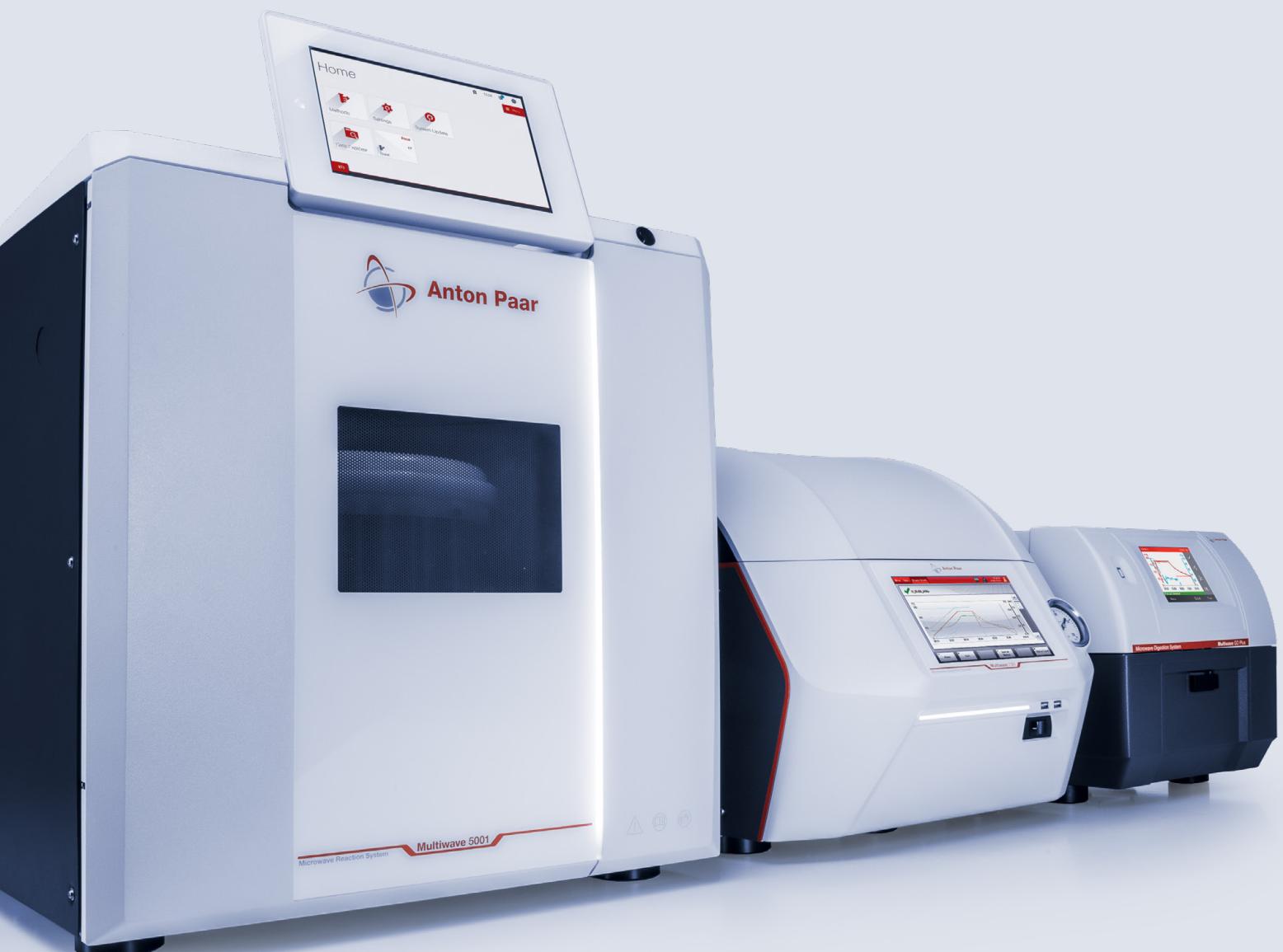


# Solutions for Chemists

Sample Preparation



# Best-In-Class

## Sample Preparation



1

### Multiwave GO Plus: Ready, steady, go!

Multiwave GO Plus is the world's smallest, most economic microwave for digestion. It combines the best of two technologies: the fast heating of a monomode reactor, and the capacity to heat up multiple samples like a multimode system due to its patented (EP2854478 B) Directed Multimode Cavity (DMC).

#### Benefits

- ✓ Automatic adaption of the microwave field to the number of filled or empty positions
- ✓ Sample cooling in less than eight minutes for a fully loaded 12-position rotor, e.g. for EPA methods.
- ✓ Unique pressure-release vessels (SmartVent technology) consisting of only three parts



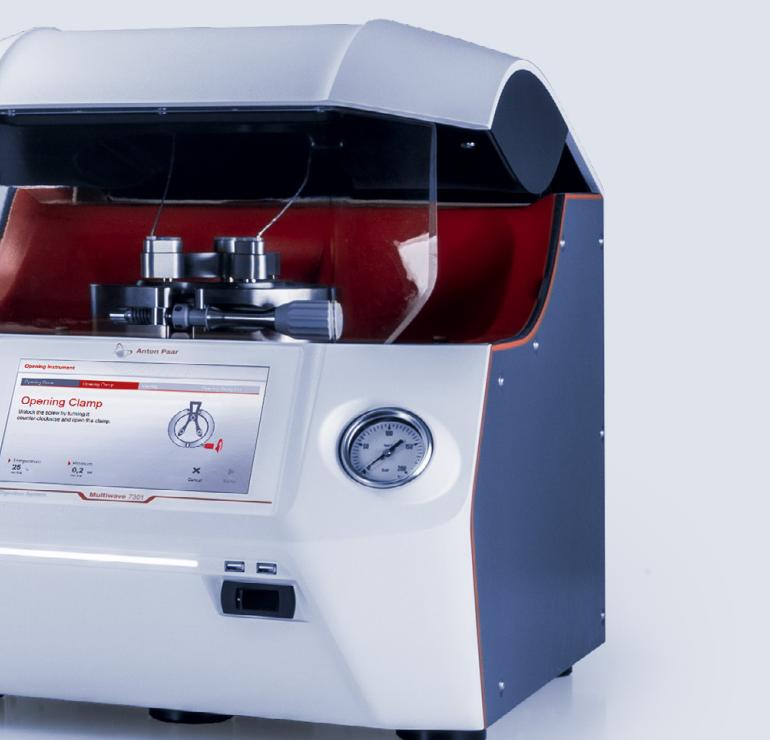
2

### Multiwave 3001 and Multiwave 5001: One system, endless possibilities

Multiwave 5001 is designed for acid digestion and acid leaching of samples with varying difficulty or volume, as well as applications such as evaporation, microwave-induced oxygen combustion, and extraction. Adapt the system according to your needs thanks to the broad portfolio of rotors and accessories. Multiwave 3001 is your versatile, economic option for most microwave digestion applications. Multiwave 5001 can be integrated into Anton Paar's lab execution software AP Connect. The system also has certified safety features.

#### Benefits

- ✓ Comprehensive method library with full-text search
- ✓ Customizable and intuitive user interface
- ✓ Unique hands-free door opener
- ✓ For the highest throughput to boost your productivity



3

### Multiwave 7101, Multiwave 7301, and Multiwave 7501: Demanding samples, easy digestion

Multiwave 7101/7301/7501 offer complete digestion for all kinds of samples in a single run, using the same method. The pressurized digestion cavity (PDC) for temperatures up to 300 °C and pressures up to 199 bar will optimize your sample preparation workflow.

#### Benefits

- ✓ Budget-friendly, pressure-sealed vials with plug-on caps
- ✓ Different volumes and racks with up to 41 positions to maximize sample throughput
- ✓ Compact design with integrated cooling system to minimize cooling time
- ✓ Ready-to-use methods and customized application support

Superior trace elemental analysis begins with outstanding sample preparation. Our microwave solutions are based on more than 50 years of sample preparation experience. The instrument range covers all applications.

#### FIND OUT MORE



[www.anton-paar.com/  
apb-microwave-digestion](http://www.anton-paar.com/apb-microwave-digestion)

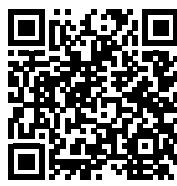
| Technology                  | Multiwave GO Plus  | Multiwave 5001 and Multiwave 3001  | Multiwave 7101/7301/7501   |
|-----------------------------|--|--|--|
| Convenience and ease of use | Easy and simple user interface   | Intuitive user interface with full-text database search and software guidance  | Software guides you through the whole digestion process                                |
| Throughput                  | Medium – 12 samples in less than 20 minutes                                | Highest sample throughput for routine samples (41 positions) and demanding samples (20 positions)                            | High – up to 41 samples in a single run  |
| Portfolio                   | Rotor 12HVT50 (PTFE-TFM)   | Unrivaled portfolio with wide selection of rotors, vessels, and accessories  | Different racks, vials, and vessels available (disposable glass, quartz, and PTFE-TFM) |
| Temperature range           | Up to 250 °C   | Up to 300 °C   | Up to 300 °C   |
| Applications                | Acid digestion<br>Acid leaching  | Acid digestion<br>Acid leaching<br>Evaporation*<br>Sample drying*<br>Oxygen combustion*<br>Solvent extraction*<br>Synthesis* | Acid digestion<br>Acid leaching  |
| Samples                     | Wide range of routine samples – especially food and environmental material | All kinds of organic and inorganic samples (depending on rotor), microsamples  | All kinds of organic and inorganic samples   |

\*Multiwave 5001

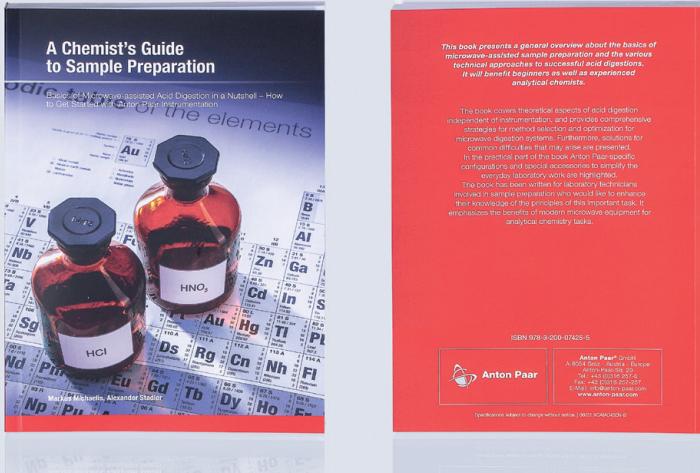
# Expert Advice

"A Chemist's Guide to Sample Preparation" covers the basics and benefits of, as well as technical approaches to, successful acid digestions, with troubleshooting tips. The practical section presents our solutions for a streamlined laboratory workflow.

FIND OUT MORE



[www.anton-paar.com/  
apb-chemists-guide](http://www.anton-paar.com/apb-chemists-guide)



**Reliable.  
Compliant.  
Qualified.**

Our well-trained and certified technicians are ready to keep your instrument running smoothly.



