

Multicube 48



Multicube 48: Trendsetting open-vessel digestion

Multicube 48 is a robust laboratory hot block for open-vessel acid digestion, evaporation, and concentration of samples as well as other applications requiring elevated temperatures. The PFA-coated graphite block in its corrosion-resistant FEP-coated housing is designed for reliable, trouble-free preparation of large batches of a wide range of samples. Precise temperature control of ± 1 °C guarantees the same digestion quality in every single vessel. Intuitive software and comprehensive documentation make Multicube 48 an excellent, cost-efficient instrument for digestion and leaching of food, environmental, petroleum, geological, and many more samples.

High throughput – to optimize productivity in your lab

- Simultaneous digestion of 48 samples
- Vials rest in racks for simplified loading and fast removal for cooling after digestion
- 800 W power ensures short heating times
- 450 days continuous runtime – no waste of valuable working time due to cooling down or heating up in-between
- To speed up your working cycle, an audio notification indicates process end and readiness for the next sample batch

Complete digestion or leaching – accurate temperature control ensures the best preparation for the subsequent analysis

- High temperature homogeneity: ± 1 °C over the whole block
- Digestion temperatures up to 180 °C
- Optional temperature control with immersing Pt100 probe in a sample solution for sensitive samples
- Complies with standard methods such as EPA 3010a, 3020b, 3050b, and 3060 for solid waste and EPA 200.2, 200.7, 200.8, 200.9, 245.1, 365.1 for water

Perfect reflux conditions – to minimize loss of digestion solution and analyte

- Polypropylene watch glasses cover the vials during the reaction
- Temperature adjustment in 0.1 °C steps to obtain the optimal working point
- Saves reagents and reduces acid evaporation



Easy interaction – intuitive software and color touchscreen

- Multicube 48 is controlled via the separate Multicube Control unit, connected with a 3 m long cable. You can place the controller away from the hot block so you can avoid direct contact with acid vapors during the digestion process.
- Modern capacitive 5.4" color touchscreen that withstands scratches and wear and is easy to operate – even with lab gloves
- Three options to reach your final digestion temperature: heating ramp, heating as fast as possible, or a stepwise profile of up to ten temperature steps
- Visualization of the set temperature profile, the measured temperature, the remaining process time, and the already lapsed time

Comprehensive documentation – to meet your GLP requirements

- Storage capacity of up to 100 methods (incl. pre-installed international standard methods and recommended Anton Paar methods)
- Data storage of up to 100 experiments
- Export via USB port as .rtf and .csv files

Specifications

Sample positions	48
Vial volume	50 mL
Temperature range	up to 180 °C
Max. runtime	450 days
Touchscreen	5.4" capacitive
Port	USB

Multi-use vials of outstanding analytical quality



High-purity disposables – to avoid metal blanks and contamination of the sample

- Single-use – no cleaning work, no cross-contamination from residual samples
- 50 mL high-purity polypropylene vials and watch glasses, for the whole sample preparation and digestion process
- Vials come with a certificate stating the ultra-low leachable metal content for 69 elements
- Watch glasses prevent external contamination from airborne dust

Vials with precise graduation lines – easy to fill up accurately after digestion

- All graduation lines meet Class A specification for correct filling to the right volume
- Circumferential graduation lines, no need for vial orientation when filling up
- Graduation lines every 5 mL

Multi-purpose vials – use the same vial for all analytical steps

- The 50 mL vials can be used
- for weighing the sample
 - for digestion in Multicube 48
 - for storage of the digested sample solutions
 - as a volumetric flask to fill the sample to the appropriate volume
 - for direct use in the autosampler for metal analysis by F-AAS, GF-AAS, ICP-OES, or ICP-MS

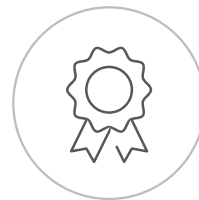
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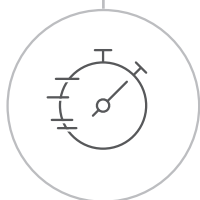
Increases your throughput –

48 samples in one run



Improves your analytics –

cost-efficient acid digestion



Reduces your workload –

disposable certified vials



Simplifies your sample preparation –

intuitive software and color touchscreen

