

LABORATORY EQUIPMENT

Pressure digestion

How to be successful with challenging digestions?



BERGHOF

Digestec

Features



Materials that are difficult to digest or high sample weight represent a challenge for modern digestion instruments. Digestec by Berghof is distinguished by its high working pressure of up to 200 bar and offers the ideal solution for the most difficult samples. The decisive plus points are its simple filling and a digestion carried out under uniform heating that can be reproduced at any time.

Universal pressure digestion

Berghof Digestec is the ideal digestion system for very difficult sample material. Digestion times of up to several days, such as are required for carbides or ceramics, can be realised simply and safely. The high working pressure of the vessels even permits digestions to be carried out with several grams of sample material.

Safety

As a result of the combination of high-quality stainless steel pressure vessel with Teflon inserts Berghof Digestec is distinguished by increased safety in operation and handling.

- all vessels are tested by the TÜV
- high operating pressure of 200 bar
- extreme digestions of up to 250°C and over several days are possible
- safe reaction control assured by means of a rupture disk integrated in every vessel
- permanently closed vessels minimise the risk of loss of volatile elements
- controlled pressure release when the vessel is opened

01 Pressure digestion vessels are available with a capacity of 50 ml (DAB-2) or 250 mL (DAB-3)

02 The vessels are characterized by their simple handling

03 Massive, long-life TFM™ PTFE inserts

The vessel concept

The sample inserts are made of pure TFM™-PTFE. The inserts contain 50 mL or 250 mL, depending on the model. They are distinguished by their extremely safe construction and long service life, coupled with simple manual handling.

Reliable reaction control

The easily operated temperature controller combine all control and regulatory parameters in one compact unit. Optionally, controllers are available that make the programming and control of heating programs possible. The Berghof Digestec can thus be simply integrated in the laboratory routine and makes overnight digestions possible, thus avoiding diverting facilities required for other laboratory tasks.

Heating

Berghof offers various heating systems, so that a high turnover of samples can be achieved. Depending on the capacity of the vessel multiple heating systems for up to 12 pressure vessel can be supplied.

Applications

- DAB-2 digestion vessels have an internal volume of 50 mL. Depending on the sample matrix and carbon content up to 2 g of sample material can be digested.
- DAB-3 digestion vessels have an internal volume of 250 mL. Depending on the sample matrix and carbon content up to 5 g of sample material can be digested.

Digestec

Technical specifications



Digestec		
Parameter	DAB-2	DAB-3
Capacities	50 mL	250 mL
Max. pressure	200 bar (2,900 psi)	200 bar (2,900 psi)
Max. temperature	250°C (482°F)	250°C (482°F)
Max. sample weight	< 2,000 mg	< 5,000 mg

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