

Smart 20 Automated Aluminum Block Digester

Smart 20 — 20-Position Automatic Kjeldahl Block Digester

Overview

The Smart 20 is a twenty-position aluminum-block digester running 300 mL digestion tubes, built for higher digestion efficiency and shorter digestion cycles in a compact footprint. With the optional automatic lifting rack and exhaust absorption manifold the system runs the full digestion cycle unattended — suited to laboratories with heavy sample-pretreatment workloads.

Features

- In 2007, Sonnen developed the first aluminum-block automated digester in China, which is designed with fast and high-efficient digestion speed and intellectual temperature and time stepped-controlling digestion method. With its pretty and smart out-shape and the advantage of outstanding durability, Sonnen's aluminum-block automated digester has rapidly won the market and reputation and are spoken highly by the end users, including China Agriculture University, Chinese Academy of Sciences, Chinese Academy of Agriculture Sciences, and other domestic and international famous enterprises. Since 2007, thousands of Sonnen's aluminum-module automatic digester have been purchased only replying on its public praise.
- Large color LCD touch screen.
- Digestion temperature and time could be set freely, and reservation function is available.
- From 1 to 21 heating-up stages can be set freely for the easy handling of the most complicated samples.
- Each stage has two independent timing methods: starting from heating up and starting from reaching the target temperature.
- Typical sample digestion parameters are built-in in the digester.
- Stores up to 510 user-defined digestion programs for recall of validated methods at any time.
- Control interface of the automatic lifter is reserved (the automatic lifter is optional).
- Control interface of the off-gas absorber is reserved.
- Multi parameters setting is functional. In the setting menu of the digestion condition, lifting parameter and absorption parameter can be set at the same time to realize the system fully automatic operation.
- Over voltage, over current and overheating protection together ensure the safe operation.
- According to the actual requirements, different parts of the digester shell are adopted with different anti-corrosion treatments of passivating, Teflon painting, epoxy painting and etc.
- Workflow pairing with the A20 autosampler: after digestion, the complete 20-position tube rack lifts out as one unit and goes directly onto the A20 for automatic testing — no tube-by-tube transfer.

Specifications

Tube positions	20 tubes
Tube volume	300 ml
Sample size (solid)	≤6 g per sample
Sample size (liquid)	≤25 ml per sample
Data storage	510 user-defined digestion programs

Power consumption	2400 W
Dimensions	450×320×200 mm

Compiled from the manufacturer's datasheet — request the full specification sheet for this model.

Application fields

Digestion of nitrogen and protein samples; COD digestion; digestion of total phosphorus, arsenic, etc. ; sample pre-treatment for heavy-metal determination (lead, copper, zinc, tin, etc.).

Specifications as published at www.sino-sonnen.com. Final configuration is confirmed per order — request a quotation: info@sino-sonnen.com · R&D: Jiading District, Shanghai · Manufacturing: Luoyang, Henan, China