Kjeldahl Digester, Gas Collection Hood, Exhaust System Scrubber

Brand **Master Science** | Unit **Pc**



The Kjeldahl Digester enables precise wet digestion of samples, essential for preparing plant, seed, feed, soil, ore, and more. It complements the Kjeldahl nitrogen analyzer, widely utilized in agriculture, forestry, environmental protection, geology, chemical industries, food analysis, and scientific research.

KEY HIGHLIGHTS

- 5.6-inch Color Touch Screen
- Precision Temperature Control
- Safety Mechanisms
- High Resistance Materials
- Conical Cap Structure

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Overview

The Kjeldahl Digester system from Master Science, Switzerland, is a powerful solution for chemical analysis and sample digestion. It includes advanced components like the Kjeldahl Digester, Gas Collection Hood, and Exhaust System Scrubber to ensure efficient sample processing, acid gas handling, and environmental protection. Here's an overview of each component and its technical details:

Key Features

5.6-inch Color Touch Screen
Multi-language interface for easy operation.

Precision Temperature Control
Intelligent PID self-tuning for high stability.

Safety Mechanisms
Over-temperature, over-current protection, and automatic restart features.

High Resistance Materials
Made from PTFE for resistance against high temperatures and chemicals.

Conical Cap Structure
Gravity-based sealing mechanism for effective acid gas collection.

Acid & Alkali Neutralization
Negative pressure pump for large flow capacity.

Three-Stage Filtration
Neutralizes acid fog, filters waste gas with distilled water, and buffers remaining gases.

Easy maintenance and solution replacement.

Additional Information
Kjeldahl Digester (Model: MSBKD10RSSWISS) The Gas Collection Hood is designed for capturing and managing acid gases during the digestion process, routing them to a neutralization device to minimize harmful emissions. The Exhaust System Scrubber neutralizes and filters acid fog, ensuring compliance with pollution standards and protecting the environment and facilities from acid damage.

Technical Specifications

PARAMETER	SPECIFICATION
High-Density Graphite Heating ModuleEnsures even temperature distribution, reaching up to 550°C.	
Programmable HeatingFlexible control with 0-40 segment programs and curve heating modes.	
Temperature RangeRT + 5°C to 550°C	
CapacityHolds 10 x 300ml glass digestion tubes	
Heating Block MaterialHigh-density graphite	
Control1-40 segment program heating or single-point heating	
Screen5.5-inch color touch screen	
PowerAC 220V / 50Hz, 1.4 kW	
Dimensions871 x 461 x 601 mm (W x H x D)	
WeightNet - 18 kg, Gross - 24 kg	
Corrosion ResistanceConstructed with 316 stainless steel for durability.	
Collecting Ports10	
CompatibilityWorks with the MSBKD10RSSWISS Digester	
Dimensions350 x 260 x 260 mm (W x H x D)	
WeightGross - 3 kg	
Extraction Flow18 L/min	
InterfaceΦ8-10 mm (reducer fittings available)	
Alkaline Solution Bottle1 L	
PowerAC 220V / 50Hz, 120 W	
Dimensions470 x 480 x 450 mm (W x H x D)	
WeightGross - 15 kg	
Gas Collection Hood (Model	MSGCH10SWISS)
Exhaust System Scrubber (Model	MSES1BSWISS)