



KJELDAHL DIGESTOR TT-SH420F

The Kjeldahl Digestor TT-SH420F utilizes advanced high-temperature infrared radiation heating technology and a microprocessor control platform, ensuring precise temperature control and rapid temperature increase.

Kjeldahl Digestor TT-SH420F provides two temperature rise modes: linear and curve temperature rise modes, along with 25 digestion programs for controlling temperature rise curves.

Its neutralization system offers various functions, including triple filtration, condensate recovery from exhaust gas, and filtration and neutralization devices. Equipped with high-quality anti-corrosive pumps, it operates with low noise, strong suction, reduced exhaust emissions, and an environmentally friendly approach.

APPLICATIONS

- **Food & Beverage Industry:** Prepares samples for nitrogen and protein determination in dairy, meat, grains, beverages, and processed foods to support nutritional labeling and quality control.
- **Feed & Agriculture:** Digests feed, fertilizers, and soil samples for accurate Kjeldahl nitrogen analysis, aiding quality assurance and fertility studies.
- **Environmental Testing:** Processes wastewater, sludge, and soil samples to measure nitrogen content in compliance with environmental regulations and pollution monitoring.
- **Pharmaceuticals & Biotechnology:** Suitable for raw material and formulation analysis where precise nitrogen determination is required for regulatory compliance.
- **Tobacco Industry:** Prepares tobacco samples for nitrogen and protein testing to maintain consistency and quality in production.
- **Scientific Research & Education:** Provides reliable digestion methods for research laboratories and universities teaching analytical chemistry.
- **Chemical & Quality Control Labs:** Supports a wide range of industrial QC applications requiring accurate nitrogen and protein measurement for product validation.

FEATURES

WD03 Gas Collection Hood

- Kjeldahl Digester TT-SH420F Utilizing a PFA sealed cap ensures an extended lifespan and effective sealing.
- The clip-on sealing cap allows for easy replacement.
- Kjeldahl Digester TT-SH420F adopts a specialized water jet vacuum pump that operates without the need for electric power.
- The drip tray design minimizes corrosion damage caused by acid solutions.

Characteristics:

- Kjeldahl Digester TT-SH420F Can process 20 samples simultaneously.
- Kjeldahl Digester TT-SH420F Uses an infrared radiation graphite conduction heating method, ensuring fast heating with minimal temperature variance across the holes.
- Kjeldahl Digester TT-SH420F Utilizes PID temperature control technology for high precision, achieving a rapid heating speed; only 25 minutes needed from room temperature to 400°C.
- Offers two heating methods: curve and linear heating, allowing editing and storage of 500 digestion programs with up to 25 segments each.
- Allows temperature and time gradients to accommodate diverse experimental needs.
- Surface of the instrument is Teflon-coated and treated with anti-corrosion measures, preventing acidic liquid corrosion during experiments.
- Equipped with a 5.6-inch true-color LCD display for straightforward and intuitive operation.
- Multiple protections included, such as over-voltage, over-current, over-heating, along with an over-temperature alarm function.
- Enhanced safety through advanced ceramic and air duct heat insulation technology.

- Comes with a standard cooling rack for quick cooling of digestion tubes, enhancing work efficiency.
- Optional waste gas neutralization system available, eliminating acid gas generated during experiments through condensation, neutralization, and drying.

S402 Scrubber

- Designed with a compact appearance, optimizing the mold design for a sleek look.
- Incorporates a translucent design in the absorption device area, facilitating easy inspection and replacement.
- Adjustable suction pressure when negative to prevent spills or gas emptying.
- Equipped with an anti-corrosion vacuum pump, delivering low noise, high suction, and reducing wasted gas discharge for an eco-friendly approach.
- Kjeldahl Digestor TT-SH420F a ternary filtration system (water condensation, alkali neutralization, and active carbon filtration) ensuring impeccable neutralization and absorption performance. The PTFE anticorrosion pipe design enhances durability and prolongs usage life.

TECHNICAL SPECIFICATIONS

	TT-SH420F	TT-SH220F
Temperature range	Room temperature +5 - 450℃	-
Temperature accuracy	±1℃	-
Heating method	Infrared heating and high-purity graphite conduction	-
Heating insulation method	Unique air duct insulation technology	-
Digestion tube capacity	300mL	-
Capacity per batch	20pcs/batch	-

Power supply	220 VAC±10% 50HZ (110V is also available. Please specify when ordering)	-
Power	3600W	-
Dimensions	20.3 inches X 18 inches X 28.7 inches	20.3 inches X 16.6 inches X 8.3 inches
Net weight	88.2 lbs,.	55.1 lbs,.



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