

Automatic Digester

Introduction:

The GDA-20S is a sample pretreatment equipment with precise temperature control, uniform heating, and strong corrosion resistance. Its core function is to convert test samples into clear, homogeneous liquid samples via a programmed high-power electric heating system and digestion system, laying the foundation for subsequent detection. With a built-in automatic lifting system, it achieves full automation of the digestion process, boasting high efficiency, energy saving, and large processing capacity.



Features:

- \* Digestion tubes & waste discharge pipes: Explosion-proof safety glass (explosion-proof and high-temperature resistant);
- \* Aluminum deep-hole heating modules: High heating efficiency, fast warming, long service life, and eco-friendly;
- \* Standard lifting device: One-key operation, automatic lifting during the whole experiment, no personnel on duty needed (energy-saving & efficient);
- \* High-power electric heating tubes: Fast heating rate to reduce experimental time;
- \* Excellent heat preservation: Lowers energy consumption while ensuring temperature stability and operational safety;
- \* Digestion rack & waste hood: 304 stainless steel (strong corrosion resistance);
- \* PTFE (polytetrafluoroethylene) digestion tube caps: High-temperature and acid-resistant, reducing acid gas leakage and environmental pollution;
- \* Aluminum parts: Anodized surface treatment for enhanced corrosion resistance.

Technical Parameters:

| Model                | GDA-20S                                                      |
|----------------------|--------------------------------------------------------------|
| Temp. Range          | RT+5~450℃                                                    |
| Temp. Accuracy       | ±1℃                                                          |
| Capacity             | 20pcs                                                        |
| Digestive Tube       | Glass tube 300ml*20                                          |
| Heating Mode         | 6061 aluminum alloy                                          |
| Heating Rate         | 8~15℃/min                                                    |
| Heating Method       | Electric heating tube                                        |
| Display              | 7-inch high resolution color LCD screen                      |
| Consumption          | 2.7kW                                                        |
| Power Supply         | Standard: AC220V±10%, 50/60Hz; Optional: AC110V±10%, 50/60Hz |
| External Size(W*D*H) | 435*640*750mm                                                |
| Package Size(W*D*H)  | 560*820*980mm                                                |
| Net Weight           | 60kg                                                         |
| Gross Weight         | 85kg                                                         |

Exhaust System Scrubber



Introduction:

The exhaust system scrubber integrates a two-stage filtration system. Primarily designed for filtering and neutralizing acid fumes generated during sample digestion, it ensures the discharged gas is safe and non-hazardous, achieving pollution-free emissions.

Features:

- \* Sheet metal enclosure construction for a sleek profile and superior structural rigidity.
- \* Perfluorinated piping configuration, offering excellent acid and alkali corrosion resistance for prolonged service life.
- \* Two-stage filtration assembly enabling efficient waste gas filtration and neutralization.
- \* High-flow negative pressure air pump equipped with a standard adjustable knob for precise flow rate regulation.
- \* Large-capacity solvent reservoir, substantially minimizing solvent replacement frequency.
- \* Damped top cover design allowing arbitrary angle positioning, optimizing space utilization.
- \* High-efficiency waste gas treatment performance, complying with national emission standards to ensure environmental sustainability.

Technical Parameters:

| Model                    | ESS-01                                  |
|--------------------------|-----------------------------------------|
| Extraction Flow          | 40L/min                                 |
| Air Extraction Interface | Φ8~10mm(Reducer fittings are available) |
| Alkaline Solution Bottle | 3L PP bottle                            |
| Distilled Water Bottle   | 3L PP bottle                            |
| Alkali Concentration     | 10%~35%                                 |
| Power Supply             | AC100~240V, 50/60Hz                     |
| Consumption              | 50W                                     |
| External Size(W*D*H)mm   | 355*310*360                             |
| Net Weight(kg)           | 15                                      |
| Package Size(W*H*D)mm    | 445*405*425                             |
| Gross Weight(kg)         | 18                                      |