

Sample Degasser V-Sorb

Importance of sample pretreatment:

Surface area and porosity measurement is closely connected with particle external surface area. Besides, the key of gas sorption is the adsorbates can be efficiently attached onto particle surface or be filled into pores, thus, no more important than particle surface purity. The purpose for sample pretreatment is to remove atmospheric contaminants on samples' surface and make room for adsorbates.

Specifications:

- A. Up to 4 samples pretreatment currently, independent temp controller;
- B. Max temperature is up to 450 °C, accuracy $\pm 1^{\circ}\text{C}$;
- C. Programmable heating process, step is 1-10 °C;
- D. User-defined analysis gases (N_2 or He are more normally used);
- E. 48 hours uninterrupted/unattended operation, Surface area analysis less than 30 mins (based on sample property);
- F. A vacuum meter was installed and can real time show vacuum values;
- G. PT100 with resolution 0.01 °C, analysis software integrated PID theory.

Features:

- 1. Adopts stainless steel vacuum system, perfect sealing performance, high vacuum, stable working, long service duration;
- 2. Speedy heating process, saving time and improving pretreatment efficiency;
- 3. Easy installation and uninstallation for sample cells;
- 4. Unique sample splash proof system;
- 5. Modularity inner structure design, convenient for installation, uninstallation and future upgrade;
- 6. Each sample station has its own adjustable evacuation control.

Environmental:

Ambient temperature: 10 to 50 °C;

Maximum relative humidity: 90%.

Electrical:

Voltage 100 - 240 VAC;

Frequency: 50 or 60 Hz.

Physical:

Height 15.7 inches (40 cm)

Width 11.8 inches (30 cm)

Depth 19.7 inches (50 cm)

Weight 33 lbs (20kg)

