

Multisample Dynamic Moisture Sorption Vsorp



Fully automated, multisample gravimetric sorption analyzer. Determination of sorption and desorption isotherms and sorption kinetics. Optimized for measurements at and around room temperature over a wide humidity range.

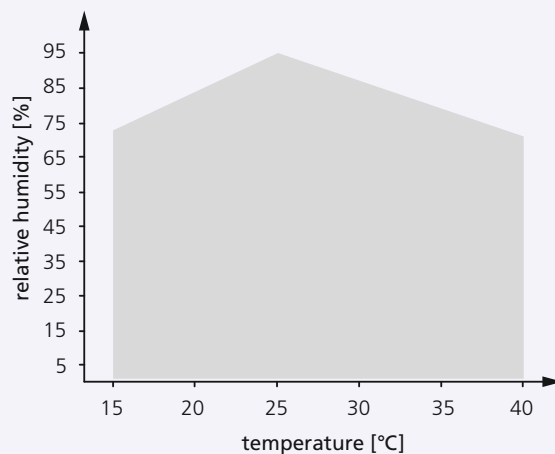
Combining our longstanding experience in the construction of measurement devices with state-of-the-art manufacturing, the Vsorp covers the requirements of an advanced multisample instrument at a reasonable price.

Vsorp Model Series

| | Vsorp Enhanced | Vsorp Plus | Vsorp Basic |
|----------------------|--|---|--------------------------|
| Number of samples | 11/23 samples Ø 33 mm/50 mm | 11 samples Ø 50 mm | 5 samples Ø 86 mm |
| Sample mass | <30 mg min 22 g/220 g max dual range | <50 mg min 111 g/220 g max dual range | <500 mg min 220 g max |
| Resolution balance | 1 µg/10 µg | 10 µg/100 µg | 100 µg |
| Repeatability (RMS*) | ±5 µg/±20 µg | ±20 µg/±100 µg | ±100 µg |

Technical data

| | |
|--------------------------|--|
| Temperature range | +15 °C to +40 °C |
| Temperature accuracy | over time ±0.1 K |
| Humidity range | 0 % RH to 95 % RH** |
| Humidity accuracy | ±0.5 % RH (0 ... 95 % RH), at 10 ... 30 °C |
| Long term stability | better than 1 % RH per year |
| Water supply | removable tank, 500 ml |
| Gas supply | compressed air/N ₂ 3 bar to 10 bar dry, clean, oil-free (class 1, ISO 8573-1:2010) |
| Dimensions & weight | width 450 mm, depth 660 mm, height 350 mm (800 mm with open lid), weight 32 kg*** |
| Environmental conditions | temperature +15 °C to +25 °C, humidity max 75 % RH |
| Power supply | 100-240 VAC, 50-60 Hz, consumption: 0.5 kW*** |
| Calibration sensor | calibration with salt solutions |
| Internal controller | operating system Windows 10 (English) |
| Software | SPS Software (English) incl. calibration tool 21 CFR part 11 compliant software package (optional) |
| Data format | MS Excel, LIMS compliant data format |
| Optional hardware | Permeability Kit, Large Objects Kit |



* Route mean square.

** Max RH value, see T/RH diagram, valid at 22 °C ambient temperature.

*** Dimension, weight and power consumption do not include keyboard, mouse and monitor.