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Multisample Dynamic Moisture Sorption SPSx-1µ High Load

Fully automated, multisample gravimetric sorption analyzer. Determination of sorption and desorption isotherms and sorption kinetics over a wide temperature and humidity range.

Due to its innovative load cell technology, the SPSx-1 μ High Load achieves a very high resolution over a wide load range of up to 220 g. In combination with the currently largest number of samples that can be measured simultaneously, this system is the most powerful and versatile vapor sorption analyzer on the market.

Technical dataNumber of samples

Min sample weight Max sample weight Balance resolution

Temperature range
Temperature accuracy
Humidity range
Humidity accuracy
Long term stability
Water supply
Gas supply

Dimensions & weight

Power supply
Calibration sensor
Internal controller
Software

Environmental cond.

Data format
Optional hardware

two exchangeable sample trays are included:

11 samples in dishes Ø 50 mm 23 samples in dishes Ø 33 mm

220 a par s

220 g per sample (total max 500 g)

dual weight range:

1 μg resolution up to 22 g with ±5 μg repeatability RMS*, 10 μg resolution from 22 g to 220 g with ±20 μg repeatability RMS*

+5 °C to +60 °C over time ±0.1 K 0 % RH to 98 % RH**

 ± 0.5 % RH (0 ... 98 % RH), at 10 ... 30 °C

better than 1 % RH per year removable tank, 700 ml compressed air/N₂

2.5 bar to 10 bar

dry, clean, oil-free (class 1, ISO 8573-1:2010) width 488 mm, depth 630 mm, height 437 mm (1024 mm with open lid), weight 62 kg***

temperature +15 °C to +25 °C, humidity max 75 % RH

100-240 VAC, 50-60 Hz, consumption: 0.5 kW***

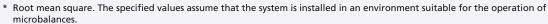
calibration with salt solutions

operating system Windows 10 (English) SPS Software (English) incl. calibration tool

21 CFR part 11 compliant software package (optional)

MS Excel, LIMS compliant data format

camera, Raman, Permeability Kit, Large Objects Kit



^{**} The full humidity range can only be achieved at a chamber temperature slightly above room temperature.





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