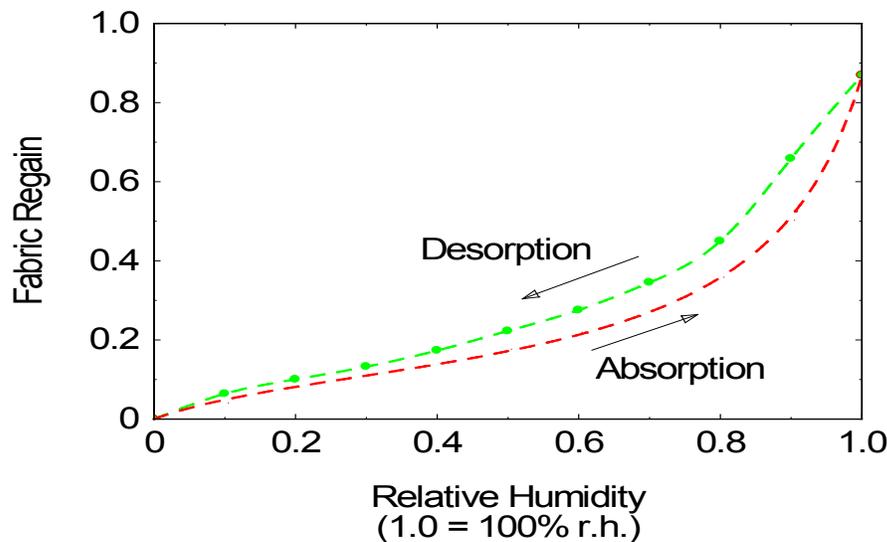
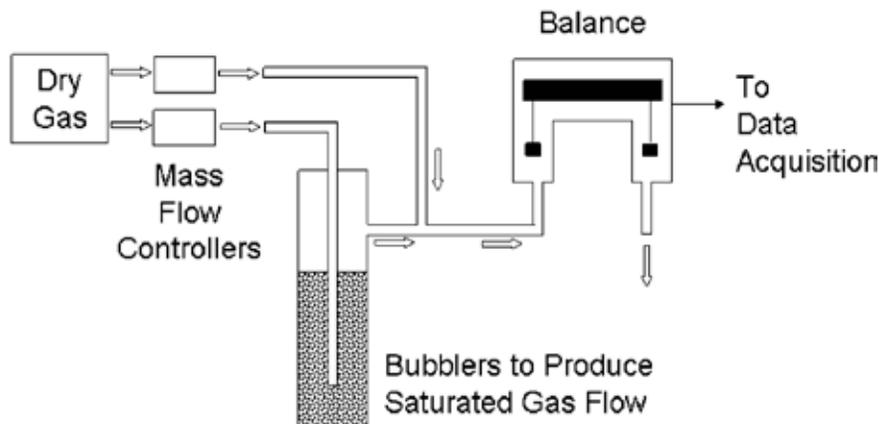




AUTOMATED SORPTION BALANCE

OVERVIEW:

A Cahn 1000 microbalance is used to measure vapor content in polymers and adsorbents as a function of concentration. A computer controls the vapor concentration flowing past the sample by combining a saturated flow with a dry gas flow to produce the desired concentration. The data acquisition system records the sample weight and temperature as a function of time. The data may be used for kinetic studies (time for the sample to equilibrate) and the equilibrium weight content at various vapor concentrations (sorption isotherm). Any desired number of setpoints may be specified in terms of vapor concentration, time, and gas flow rate.



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