

Hidden Isochema Limited

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New Product Information

Release: ISOPRI005

Release Date: Immediate

Powerful New DVS Control Method from Hidden Isochema

IGAsorp dynamic vapor sorption (DVS) analyzers from Hidden Isochema are now available with a powerful new operating mode, allowing relative humidity (RH) to be controlled at values up to 10 times lower than possible with methods traditionally utilized in compact DVS analyzers. Climate-XT mode, unique to Hidden Isochema, applies independent, intelligent, control algorithms to the sample and humidifier thermostats to allow humidity setpoints below 0.2 %RH to be accessed.

The analyzer's HIsorp software determines and applies the humidifier temperature(s) required to attain the full range of isotherm points as entered by the user. The process is fully automated and, naturally for Hidden Isochema gravimetric sorption analyzers, the full kinetic data is recorded and analysed along with the equilibrium data.

Climate-XT mode uniquely allows fully automated access to the complete range of humidity values up to 98 %RH, with direct measurement of both humidity and temperature at the sample position. For sample temperature 50 °C, humidity may be controlled as standard down to 0.1 %RH, and further options are available for optimised temperature and humidity requirements beyond these limits.

Climate-XT mode will be of particular interest to researchers and process engineers working with hydrophilic materials, where conventional DVS analyzers ignore valuable information from data in the Henry's Law region of the isotherm.

**About Hidden Isochema**

Hidden Isochema is recognized as an established leader in sorption instrumentation with over 20 years' experience in sorption analyzer design and development. For further information on this or any other Hidden Isochema product contact Hidden Isochema at **info@hiddenisochema.com** or visit **www.hiddenisochema.com**

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