



New Product Information

Release: ISOPR1005

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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New Product Information

Release: ISOPR2402

Release date: Immediate

Improved Humidity Conformance Testing for DVS Analyzers

Hidden Isochema announces a new improved conformance test method for their dynamic vapor sorption (DVS) analyzers. The traceable method verifies the combined temperature and relative humidity measurement and control for all gravimetric analyzers with a humidifier or vapor generator, including the IGAsorp, and relevant options of their IGA and XEMIS series.

The test involves monitoring the gravimetric response of a certified standard or saturated salt solution as the applied humidity is controlled near the equilibrium relative humidity (ERH). The Hertz-Knudsen equation is then used to determine the ERH of the standard and the combined measurement uncertainty. Conformance test certificates are automatically produced from HIsorp software using the calculated pass/fail criterion.



The method also includes options to cycle the test for verification of long term analyzer performance and also to change the test temperature if appropriate. The new improved method includes an automated pre-conditioning stage and may equally be applied to humidity feedback control and constant flow modes of dynamic vapor sorption analysis.



A low cost user test kit is available that also adds a weight conformance check for complete instrument verification in compliance with site quality systems including GMP.

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Hidden Isochema Ltd 422 Europa Boulevard, Warrington, England, WA5 7TS
Tel: +44 (0)1925 244 678 Fax: +44(0) 1925 244664
Email: info@hiddenisochema.com