

# ABR AUTOMATED BREAKTHROUGH ANALYZER

Hiden Isochema announces  
the launch of the all-new

## ABR Automated Breakthrough Analyzer.

### KEY FEATURES

- ▶ Fully automated breakthrough analyzer
- ▶ Optimised for research-scale sample sizes (bed sizes from 2 cc)
- ▶ Ultralow dead volume automated switching (purge gas /process mixture)
- ▶ Options for gas-gas, gas-vapor, vapor-vapor configurations
- ▶ Optional high pressure (50 bar) configuration
- ▶ Fully integrated close-coupled mass spectrometer

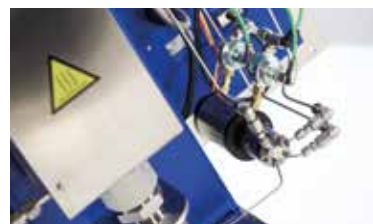
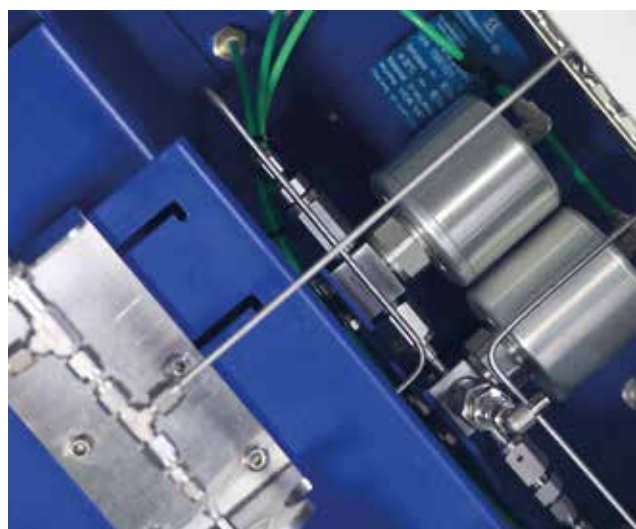
For more information  
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The **ABR** is a dedicated breakthrough analyzer, fully automated and supplied with an integrated close-coupled mass spectrometer.

The **ABR** is available in a range of configurations to suit research-scale samples, with bed volumes from 2 cc to 20 cc. Up to 6 gas inlets are available as well as a dedicated purge stream. Flow rates are selected to suit the specific applications, and the ABR includes an ultra-low dead volume switching valve. Options include an upgrade for operation at pressures to 50 bar, and an integrated vapor generator module for gas-vapor operation.

The **ABR** is designed to meet the needs of researchers wishing to characterise the gas separation performance of novel materials such as metal-organic frameworks (MOFs), zeolitic imidazolate frameworks (ZIFs) and covalent organic frameworks (COFs) without the time or expense of synthesising larger quantities of material. The breakthrough data obtained is complementary to the adsorption-desorption isotherms measured with our **IGA**, **IGAsorp**, **XEMIS** and **IMI** sorption analyzers.



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