



MBR AUTOMATED **MEMBRANE** REACTOR

Hiden Isochema announces the launch of a **dedicated membrane testing reactor for gas permeable membranes, the MBR**

KEY FEATURES

- ▶ Operating pressure to 10 bar
- ▶ Wide temperature range with options for 120°C and 300°C
- ▶ Multiple gas inlets compatible with a range of gases
- ▶ Ultralow dead volume automated switching valve
- ▶ Fully integrated close coupled mass spectrometer
- ▶ Bespoke reactor design options

For more information
please contact our Sales
and Application team via
info@hidenisochema.com



The **MBR** is a dedicated membrane testing reactor for studying the selective gas permeation properties of membrane materials for separation and purification applications

Hidden Isochema's MBR is a fully automated system, supplied with an integrated close-coupled mass spectrometer. In co-current flow mode, a gas mixture is applied upstream of the membrane at a controlled pressure and composition, while a dedicated helium flow flushes the downstream side. The gas composition is then analyzed to assess the separation performance of the membrane material. Alternatively, in cross flow mode, the MBR is operated without downstream sweep gas and the performance of the membrane is determined by comparing the downstream and upstream gas compositions.

Design features include fully programmable operation, pneumatically actuated shutoff and switching valves with minimised dead volume, a high performance pressure controller and a precision engineered membrane cell with unique integral support structure.

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