

mixSorb L (formerly dynaSorb BT)

Model	L	L eco	L ambient	LHP
Pressure range	0.1 – 10 bar	0.1 – 10 bar	0.1 bar – ambient	0.1 – 68 bar
No. of MFCs	2 – 4			
Required inlet pressure	15	15	15	85
No. of Evaporators	Up to 2			
Pressure control	Yes	Yes	No	Yes
Simulation Software	Incl.	Optional	Incl.	Incl.
Gas sensor	Yes	No	Yes	Yes
Counterflow possible	Yes	No	Yes	Yes
TCD	Incl. 13 factory calibrations	Incl. 1 factory calibration	Incl. 13 factory calibrations	Incl. 13 factory calibrations
Temperature sensors in sample bed	Up to 4			
Sample amount	4 – 130 cm ³ , customized adsorbers on requests			
Temperature range heating mantle	Ambient – 400 °C			
Temperature range circulator bath	-20 °C – 90 °C			

Specifications/Features/Benefits

- Determination of breakthrough curves
- Investigation of kinetic performance of adsorbents
- Investigation of co-adsorption and displacement
- Determination of sorption selectivity
- Reasonable downscaling of technical separation
- Dynamic adsorption and desorption experiments
- Determination of single- and multi-component adsorption data
- In-situ sample preparation up to 400 °C
- Fully automated control via PC
- Automated regulation of the adsorber pressure up to 10 bar
- Up to 4 high precision mass flow controllers
- Automated built-in gas mixing
- Measurement of inlet and outlet gas composition
- Pre-tempering of inlet gas and tempering of adsorber
- Monitoring of inlet gas temperature
- Determination of heat profiles in the adsorber with four temperature sensors
- Monitoring of pressure drop along the adsorber
- Built-in Thermo Conductivity Detector (TCD) Optional gas analysis via interfaced Mass Spectrometer
- Safety guard sensor for flammable gases for automatic shut down
- Enhanced Safety by intelligent illuminated workspace

mixSorb S series

Model	S	S eco	S ambient	SHP eco	SHP
Pressure range	0.1 – 10 bar	0.1 – 10 bar	0.1 bar – ambient	0.1 – 35 bar	0.1 – 68 bar
No. of MFCs	2 – 4				
Required inlet pressure	15 bar	15 bar	15 bar	85 bar	85 bar
No. of Evaporators	Up to 2				
Pressure control	Yes	Yes	No	Yes	Yes
Simulation Software	Incl.	Optional	Incl.	Optional	Incl.
Gas sensor	Yes	No	Yes	No	Yes
TCD	Incl. 13 factory calibrations	Incl. 1 factory calibration	Incl. 13 factory calibrations	Incl. 1 factory calibration	Incl. 13 factory calibrations
Temperature sensors in sample bed	Up to 4				
Sample amount	< 0.1 cm ³ – 5 cm ³ , customized adsorbers on requests				
Temperature range heating mantle	Ambient – 400 °C				
Temperature range circulator bath	-20 °C – 90 °C				

Specifications/Features/Benefits

- Determination of breakthrough curves
- Investigation of co-adsorption and displacement
- Determination of sorption selectivity
- Estimation of applicability of synthesized materials in technical processes
- Dynamic adsorption and desorption experiments
- Determination of single- and multi-component adsorption data
- Investigation of kinetic performance of novel materials
- In-situ sample preparation up to 400 °C
- Fully automated control via PC by using mixSorb Manager
- Automated regulation of the adsorber pressure up to 8 bar
- Up to 4 high precision mass flow controllers
- Automated built-in gas and gas/vapor mixing
- Measurement of inlet and outlet gas composition
- Tempering of sample cell by thermostat automatically
- Monitoring of pressure drop along the sample cell
- Built-in Thermo Conductivity Detector (TCD); optional gas analysis via interfaced Mass Spectrometer
- Safety guard sensor for flammable gases for automatic shut down
- Enhanced Safety by intelligent illuminated workspace