



## Spectromol: for the highest purity

High purity gases are being used in many different applications in industry and laboratory. In some cases, even very low concentrations of impurities such as oxygen, moisture, hydrocarbons, sulphur compounds and others are disturbing the sensitive analytical processes.

For this reason, Messer offers a range of gas purification systems, which specifically remove impurities up to extremely low levels of – for instance – 30 ppb and lower.

The purification systems are of a modular and user-friendly concept, which can be used universally, quickly and safely in laboratories and industry.

Various cartridge sizes are available, offering purification solutions for gas flows from ml/min up to even 100 m<sup>3</sup>/h!

The processes involved are based on chemisorptions or physisorption.

The size of the purification systems depends on the application parameters. Spectromol purification systems can be implemented as central gas purification or as point-of-use purification.

### Applications overview

Type	Contaminants removed	Gases to be purified
<b>Oxisorb</b> <sup>®</sup>	oxygen, moisture	Rare gases, N <sub>2</sub> , H <sub>2</sub> , CO, CO <sub>2</sub> , saturated HC
<b>Hydrosorb</b> <sup>®</sup>	moisture (carbon dioxide)	Rare gases, N <sub>2</sub> , H <sub>2</sub> , CO, CO <sub>2</sub> , KW, Halogen-KW, N <sub>2</sub> O, O <sub>2</sub> , compressed air
<b>Accosorb</b> <sup>®</sup>	Hydrocarbons, oil vapour	Rare gases, N <sub>2</sub> , H <sub>2</sub> , CO, CO <sub>2</sub> , CH <sub>4</sub> , compressed air
<b>Sulfosorb</b> <sup>®</sup>	Marcaptane, COS, SC, H <sub>2</sub> S, SO <sub>2</sub> , NO	Rare gases, N <sub>2</sub> , H <sub>2</sub> , CO, CO <sub>2</sub> , saturated HC, Compressed Air
<b>Excisorb</b> <sup>®</sup> -F	Fluoride	Gas mixtures with F2 (scrubbing)