

Reduce sulfur and nitrogen content in distillates and crudes to ultra-low levels without hydrotreating.

FlexULS™ Technology is a novel, adsorption based process that offers a cost effective alternative to hydrotreating for reducing both sulfur and nitrogen levels in a broad range of hydrocarbon streams. Utilizing the Auterra's proprietary family of catalysts, FlexULS meets ultra-low sulfur performance levels and provides an innovative leap forward in desulfurization technology.

Flexible stream treatment. Any crude oil, distillate or petrochemical stream that contains sulfur levels below 2,000 parts per millions (PPM) are candidates for the FlexULS process. The process leaves the original hydrocarbon stream completely intact and doesn't saturate or oxygenate it.

Sulfur Reduction. Sulfur levels below 2,000 PPM can be readily reduced to below 10 PPM and delivers original quality hydrocarbons with lower sulfur content.

Nitrogen Reduction. Typical nitrogen reduction performance is in the 25-60% range depending on feed characteristics.

Cost Effective. Flexible design parameters allow you to choose ease of operations or lowest total cost operations.

Scalable. Whether a small petrochemical polishing application or Tier 3 regulatory compliance answer for heavy crude refiners, FlexULS provides cost-effective solutions for any production level.

Technology Overview. A dual adsorption bed configuration allows one bed to be operational while the other is regenerated. FlexULS provides operational flexibility allowing each customer to tailor the regeneration solution to meet their needs. A variety of acceptable regeneration solvents keep operating costs low and Auterra's just-in-time Regeneration Services can keep your capital costs low.

Please contact Auterra for more information on FlexULS Technology and Auterra's Regeneration Services.

For more information, contact:

Auterra Sales Department
+1 518 382-9600 ext. 104
sales@auterrainc.com

FlexULS Highlights

- Reduces sulfur and nitrogen in light feeds
- Effectively treats sulfur levels <2000 PPM
- Produces treated streams with sulfur levels below 10 PPM
- Simple operation
- Small footprint, low capital cost

Below is a high level view of FlexULS

