

KATALCO^{JM} PERFORMANCE increases efficiency

Ammonia efficiency/energy assessment

A 5% efficiency improvement is worth US\$6,000,000/yr on a 2000te/d plant with gas at US\$5/MMBTU.

The assessment tool, developed and delivered by our KATALCO^{JM} PERFORMANCE alliance partner ABB Engineering Services, is specifically designed for Ammonia Plants. The output includes:

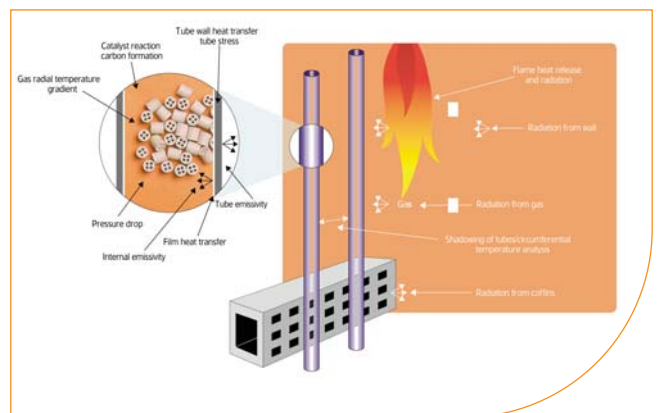
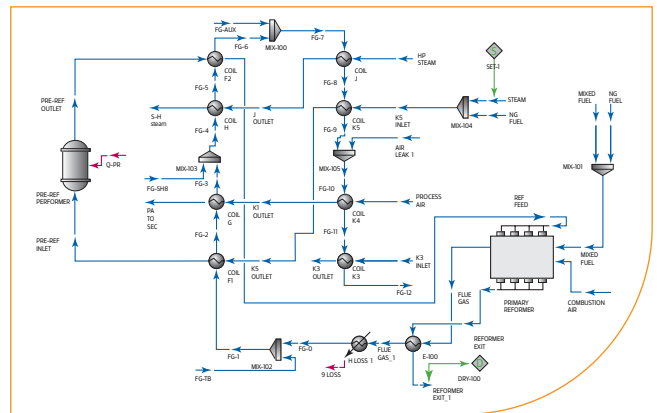
- energy and mass balance for the whole plant and the energy intensive operations (steam reformer, boilers, and main machines)
- efficiency analysis of the energy intensive operations (steam reformer, boilers, and main machines) plus benchmarking with global best practice
- recommendation of practical improvement options ranked by likely benefits and budget cost

The energy and mass balance will be created in the KATALCO^{JM} PERFORMANCE HYSYS for Ammonia flow-sheeting program which includes unit operation models for all the catalytic unit operations.

A particular value of this assessment is detailed analysis of a steam reformer operation using our unique KATALCO^{JM} PERFORMANCE REFORM computer model. The steam reformer is the most energy intensive unit operation on an ammonia plant and therefore has the greatest scope for generating savings. Hence the data collection and analysis includes a KATALCO^{JM} PERFORMANCE reformer survey.

The efficiency of main rotating machines and the heat transfer values of major boilers are benchmarked against best practice, with recommendations where appropriate for improvement.

With KATALCO^{JM} PERFORMANCE Ammonia Plant Energy and Efficiency Assessment you can be sure you are either at world-class performance or know how to get there.



For more information about the Johnson Matthey Catalysts range of KATALCO^{JM} catalysts and associated services please contact your local representative, visit our web site www.jm-catalysts.com or e-mail katalco.performance@matthey.com

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