

CATSCAN Version 2.0 Data Sheet



Higher performance and lower costs start with CATSCAN

The industry's only real-time catalyst performance monitoring software

Delays in identifying and responding to process problems can cost styrene operators \$700,000 or more in reduced catalyst life each year. That's why we developed CATSCAN, an advanced software solution to dramatically reduce the cost of styrene production.

CATSCAN is a PC-based online performance monitoring system that links your real-time DCS data to advanced analytical and modeling tools. CATSCAN monitors and analyzes all key operating variables, giving you instant process feedback and the power to get the most from your catalyst investment. CATSCAN gives you analysis and prediction tools to simulate the best route to achieving your goals.

New Feature Highlights

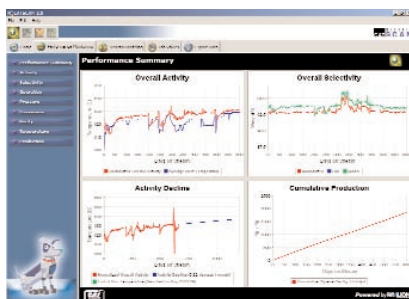
Introducing CATSCAN Version 2.0 – more flexibility than ever

Leading styrene producers count on CATSCAN to reduce production costs and increase operation efficiency. By listening to those customers and learning from their operating experience, we've enhanced the latest version of CATSCAN with flexible new features to make it even more user-friendly than ever.

New e-mail alerts help prevent problems

If key variables approach or exceed identified limits, CATSCAN can send you an early-warning email so you can prevent potential problems. You can also monitor application uptime to ensure you are getting continuous data updates from your system.

Enhanced plots make CATSCAN easier to use



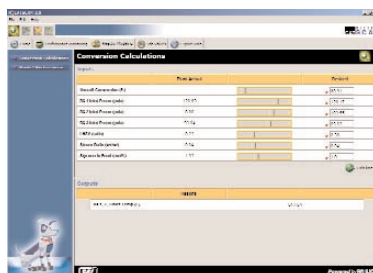
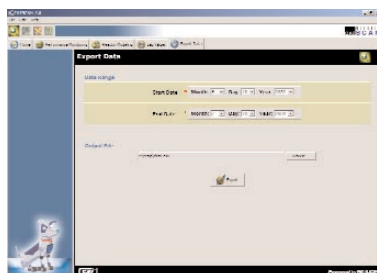
- Consistent time scale on all plots
- Daily data (i.e., model results) plotted on same plot as weekly data (i.e., lab data)
- X-axis and y-axis zooming
- Manual control of x-axis and y-axis scales
- Ability to print a plot
- Ability to save a plot in standard png format

Monitor All Key Interdependencies

- Inlet Temperature
- Selectivity to Styrene
- Conversion
- Pressure
- Steam/Oil Ratio
- Space Velocity
- Activity Decline Rate

Leading styrene manufacturers are using CATSCAN to gain instant access to information such as predicted catalyst life, run scenarios on how key variables like temperature will affect catalyst life, and make better operating decisions.





Instant daily averages

Instead of waiting for the database to take in lab values and calculate daily averages, users can now manually initiate daily processing of the database with the new "Update Database" button. In addition to getting insight into performance, end-users can also see today's daily average at the push of the button - with a trend line of all daily averages of the previous run days.

Enhanced laboratory results entry screen

- More intuitive interface
- Ability to select past timestamps
- Ability to change or delete past lab entries
- Ability to specify "," as the decimal separator

Upgraded calculation engine

The new CATSCAN takes advantage of Pavilion's Version 7, the latest version of its robust calculation, simulation, and optimization engine. Running on the latest platform, this solution provides the best predictive analytics in the industry.

Support for two- and three-reactor systems

CATSCAN now supports systems with either two or three reactors.



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