

Major enhancements of version 6.3 over version 6.2 include:

- * Capacity to handle 2000 discrete components in a single simulation
- * Improved convergence via a new recycle cut stream algorithm
- * Optional user-defined enhancement factor for mass transfer
- * Enhanced composite curve plots that allow users to set minimum delta T
- * Numerous enhancements to the CC-THERM heat exchanger sizing module
- * Capability to load multiple instances of CHEMCAD via COM
- * Improvements to CHEMCAD's OPC functionality, including increased speed
- * Increased calculation speed for local thermodynamics
- * Capability for network administrators to perform silent CHEMCAD installation

VERSION 6.3.0.3903 RELEASE NOTES

CHEMCAD New Features and Enhancements

- * Added the capability to specify a chemical reaction enhancement factor for mass transfer distillation calculations (2842)
- * Added an auto-estimation mode for the Batch Distillation Column UnitOp to improve column convergence (2896)
- * Enhanced distillation curve characterization to use the standard stream selection dialog box (516)
- * Added a warning for a one-sided heat exchanger so that users will know if utility rating entries are overriding Specifications tab entries (1151)
- * Added the Browse capability to assist in finding a targeted Excel Data Map (1567/2772)
- * Enhanced the Composite Curves feature to make shifting composite curves optional (2763)
- * Enhanced stream properties to allow entropy to have units of absolute temperature (°R, K) (2808)
- * Added the capability to rename an Excel Data Map while it is open in CHEMCAD (2852)
- * Enhanced the RAMP UnitOp so that it no longer generates errors when disabled (2878)

CHEMCAD Maintenance

- * Corrected an issue where a Stream Reference UnitOp in bypass mode could trigger a 'No specifications' error message (1959)
- * Corrected an issue with the Predictive Crystallizer example simulation so that the Excel UnitOp runs properly (2547)
- * Corrected an issue where CHEMCAD could close unexpectedly if left open and idle for long periods of time (2819)
- * Corrected an issue where imported user electrolyte components were not recognized as electrolytes (2860)
- * Corrected an issue where the Control Valve UnitOp in 'Fix flow and position' mode could recalculate the flow rate instead of pressure (2863)

CC-THERM

- * Changed the default nozzle sizes in CC-THERM to standard pipe sizes (2845)
- * Corrected an issue where deleting Excel Data Map rows could cause difficulties with the Data Map (2855)
- * Improved the default inlet and outlet baffle spacing for new CC-THERM simulations (2857)
- * Corrected an issue where a heat exchanger in fouling rating mode, with two or more parallel shells, could generate different service and calculated heat transfer coefficients (2886)
- * Added the LMTD correction factor to air cooler reports (1479)
- * Added Stream Analysis for segmental baffles with no tubes in window (2518)
- * Added Window, End, and Crossing velocities to the tabulated report for baffles with no tubes in window (2523)
- * Corrected an issue with fouling values being assigned to the wrong side of an air cooler for an air-side fouling rating (2662)
- * Disabled certain calculated fields when the Heat Exchanger UnitOp is in simulation mode, as these values are not relevant in that mode (2804)
- * Corrected an issue where CC-THERM reported inconsistent values for density on the TEMA report in MS Word or the internal report viewer (2815)
- * Corrected an issue where creating a TEMA sheet could cause CHEMCAD to close unexpectedly (2818)
- * Corrected an issue where a pinch warning appeared when the number of shells in series was greater than 1 for a Heat Exchanger UnitOp in simulation mode (2838)