



Sugars version 3.7.15 revisions

A summary of corrections for version 3.7.15 as compared to 3.7.12 follows.

Beginning with Sugars(TM) version 3.7.13 support was added for Visio 2007 and 2010. Sugars will now work with Visio 2002, 2003, 2007 and 2010; however, Visio 2010 uses the new Microsoft ribbon interface and the Sugars toolbar and menu are shown on the Visio 2010 "Add-ins" tab. Visio 2007 uses the same familiar menu and toolbar interface that is used in Visio 2002 and 2003.

Visio Interface:

Fixed shape data display error that would occur when using a data graphic. Also, fixed display of mass and energy balance errors that weren't being displayed in some cases.

Blender Station:

Corrected a problem with the %DS specified for the output flow. Previously, the %DS was incorrect when the input flow contained insoluble components. All models that use %DS for the blender should be reviewed before balancing with version 3.7.13. If the input flow contains insoluble components, then it is recommended that the blender is changed to specify %H₂O content for the output flow before rebalancing the model. Fixed problem with sucrose crystals not melting when the input flow to port 0 was under saturated (3.7.15 fix).

Distributor Station:

Corrected a problem with the Dry Substance Liquid, Purity Liquid, Dry Substance Masseccuite and Purity Masseccuite not displayed as Visio Custom Properties (now called Visio Shape Data starting with Visio 2007) after a balance.

External flow:

Corrected a problem with External flows not displaying Dry Substance Liquid, Purity Liquid, Dry Substance Masseccuite and Purity Masseccuite as Visio Custom Properties (now called Shape Data for Visio 2007 and 2010).

Flash Tank, Evaporator and Pan Stations:

Corrected a problem with the vapor pressure not set correctly when the specified output temperature was below the saturation temperature plus boiling point elevation.

Separator Station:

Corrected an error when the station had a diluent flow and a fatal error was given because it was not detected.

Thermo Compressor Station:

Corrected problem with the station not being consistent when changing between efficiency, entrainment ratio or temperature out.

Turbine Station:

Corrected an error in the specific steam consumption calculation.

Turbo Alternator Station:

Fixed problem with imbalance error message given when model was balanced and external steam flow was going to the Turbo Alternator station (3.7.15 fix).

Sugars Stencils:

Changed Distributor 1, Distributor 2 and Distributor 3 to not use "Match master by name on drop" so that distributor shapes are not revised to be one of the distributors that were dropped on the drawing earlier. This seems to be a quirk in Visio because the different names should prevent this from happening. Added title block to the "Miscellaneous shapes" stencil, and added Bagasse Boiler grouping to the "Equipment – miscellaneous" stencil (3.7.15 feature).

Sugars Examples:

Changed the "Cane Factory (Milling) BagasseH2OControl" example to be "Cane Factory (Milling) Bagasse Boiler" to use the new Bagasse Boiler grouping that was added to the Equipment – miscellaneous stencil (3.7.15 change).

Also, other miscellaneous corrections and improvements were done.

Installing version 3.7.15 will update all previous versions of Sugars back to and including version 3.5.0 (released on February 25, 2003). It is not necessary to uninstall the older version before installing version 3.7.15.