

New Features in AFT Fathom 8

- General interface
 - Updated interface and icons
 - Robust support for dual monitors
 - Native support for both 32-bit and 64-bit operating systems
 - Tabbed Primary window navigation with individual window pullout feature
 - New Startup panel allows user to choose engineering unit system (U.S./metric) and specify default fluid
 - Improvement of main menu navigation including redesign of the Checklist
 - Primary window toolbars now integrated into each Primary window
 - Non-settling slurry features accepts raw rheological data and generation of non-Newtonian constants as well as new raw data Scale-up model
 - Capital and recurring cost data allows cost estimation for piping systems
 - New User Options window collects many of the previous user customization windows into one place – including Parameter and Unit Preferences, General Preferences and Workspace Preferences
 - Improved printing features includes use of company logo, user comments and titles, as well as graphical borders on all printouts
 - Help menu links to video tutorials on our website
 - When merging models users can automatically create a group of merged pipes and junctions
 - User customizable themes
 - Output reports available in Spanish language (coming soon)
- New Quick Access Panel
 - Access to Scenario Manager directly in interface
 - Access to Graph Sets directly in interface
 - Access to Workspace model overview map
 - Alternate display of Input and Output data for pipes and junctions
 - Users can pin the Panel or use it in flyout mode

- Scenario Manager
 - Access through Quick Access Panel from any Primary Window tab
 - Insert Scenario feature allows new scenarios to be inserted above any scenario including the Base Scenario thus creating a new Base
 - Delete All Children feature means children do not need to be deleted one at a time
- Workspace
 - Transparent icons gives more modern look to model
 - Mapping feature flyout allows birds-eye view of model and navigation
 - Dockable and movable Toolbox
 - Toolbox icon changes can be made using a right mouse click on the Toolbox
 - Select cursor or Pan cursor selectable on the Toolbar
 - Improved navigation speed for large models with thousands of pipes and junctions
 - Improved Inspection window more readable and has integrated Output data with Input
 - When trying to move locked pipes and junctions a lock symbol appears next to locked items that cannot be moved
 - Annotations capability great improved also allowing user's images to be inserted into the annotation
 - Improved pipe and junction graphical interference detection
- Model Data
 - General, Pipe and Junction data display sizes can be changed by user and more easily hidden
 - New zoom feature added
- Output
 - General, Pipe and Junction output report display sizes can be changed by user and more easily hidden
 - New zoom feature added
- Graph Results

- Improved Graph Set creation and navigation integrated into Graph Results window Quick Access Panel
- Pipes
 - Fittings and losses can now have user “Favorites” which allows for much faster navigation to frequently used fittings
 - New heat transfer model allows convective heat transfer to be modeled simultaneously with a fixed heat flux
 - New Pipe Material Databases based directly on international pipe standards (databases coming soon)
- Junctions
 - Reliability factors for pumps estimates relative impact on pump reliability of pump speed, impeller size and off-BEP operation
 - Pump de-rating by user specified factors adds to previous calculated de-rating methods
 - Reference density for all pump head curves and junction resistance curves allows correction for pressure drop data, mass flow data and (for pumps) power data
 - New Kv loss model for valves
- Solver
 - Thermal sectioning for pipes and heat exchangers allows for more accurate temperature change calculations when temperature changes are large and specific heat is non-linear
 - Improved support of pressure drop in fittings by use of the Adjusted Turbulent K factor method
 - Handle varying ambient pressure with elevation
 - Improved convective heat transfer model for laminar flow
- Modules
 - GSC - Pipes now have GSC variables available such as roughness, design factor, insulation thickness, Reynolds number