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AFT Fathom 10	AFT Fathom 9	AFT Fathom 8
Import from CAESAR II neutral files and Piping Component File (.pcf) as well as import/export model data from an EPANet file	New graphing features include display of multiple graphs in same tab, stacked graphs, double-Y axis graphs, and new graph folders to organize and easily display groups of saved graphs	Completely redesigned user interface with tabbed window access and new transparent icons
Enhanced Excel integration such as: Output data with a controlled scenario-to-worksheet Manager; improved import model change data with batch import to change multiple scenarios at once and use junction and parameter friendly names; easier Cost Database creation using Excel import/export	Language choices for German and Chinese, in addition to French and Spanish, for all output, graphs and menus	Improved printing features includes use of company logo, user comments and titles, as well as graphical borders on all printouts
Isometric grid drawing on the Workspace	Support for NFPA output reporting	New Quick Access Panel includes access to Scenario Manager
Made rotodynamic (centrifugal) and positive displacement pumps data entry clearer on the Pump Property window	GIS shape files can be imported to create a model	Handle varying ambient pressure with elevation allows for better understanding of gage pressure on submerged pipes at different depths
Acceleration head loss calculation for PD pumps	Improved search capability includes searches for pipe and junction notes, names and numbers	New Adjusted Turbulent K factor method allows for improved support of laminar pressure drop in fittings and valves
Enhanced pipe heat transfer including external convection coefficient calculation, buried pipe heat transfer, and heat tracing	New Weir junction	Robust support for two monitors
Large models now load faster	New 3-K method for laminar flow through fittings	New Startup panel allows user to choose engineering unit system (U.S./metric) and specify default fluid

Ready to access these new features? Email info@aft.com

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Full list of **New Features** you can use in AFT Fathom™ 10

General Interface
- Set defaults for your general unit system, language, pipe material and other preferences in the Startup Control window
- Import data from Excel using keywords
- Use Excel to make changes to multiple scenarios at once
- Load large models faster than before
- Add additional rows to the data tables (like Cv vs. Open Percent, etc.)

Model Import
- Import from a CAESAR II neutral file
- Import from a Piping Component File (.pcf)
- Import or export a EPANET file

Excel Export
- Export output using the new Excel Export Manager
- Export single values, columns, rows or entire output tables
- Export data from a Graph List item
- Define specific starting cells and target worksheets
- Ability to include headers and units
- Automatically export data after the model is run or during a batch run of scenarios

Standards and Codes
- View a summary of the Codes & Standards used within the models
- Standard references are updated to current versions where applicable

Workspace
- Draw using an isometric grid
- Differentiate between scenario generation through additional background color options
- Alter background opacity levels to make annotations stand out
- Zoom and pan with new keyboard shortcuts
- Draw attention to pipes with fittings & losses through symbols

Pipes
- Automatically calculate free and forced external heat transfer coefficients for air and water
- Calculate buried pipe heat transfer
- Model trace heating on the pipe surface
- Enter intermediate pipe elevations as length from the pipe beginning
- Added many EN and DIN pipe standards to the available pipe materials
- Increased ability to select pipe materials in the Database Manager

Junctions
- Enter data more easily on the Pump Property window for rotodynamic (centrifugal) and positive displacement pumps
- Link pumps to simulate a pump with an intermediate pressure extraction flow
- Define a relief valve effective orifice based on API 526
- Calculate acceleration head loss for positive displacement pumps
- Enter the Preferred Operating Range (POR) and Allowable Operating Range (AOR) for a pump and display it in the Pump vs. System Curve
- Set Power or Efficiency as the default for pump curves
- Set default for Always Control Never Fail on Control Valves
- Gives a cautionary message if flow is outside of resistance curve range

Output
- Export data to specific cells within Excel
- Create Design Alerts by simply right-clicking on cell or column header to create a Design Alert, add to the Excel Export Manager, copy data, find on the Workspace, sort and change units
- Identify Design Alerts through highlights on the transient pipe, junction and summary tables
- Added additional heat transfer parameters
- Can now translate to Portuguese

Model Data
- Added additional parameters such as insulation thickness
- Right-click a pipe or junction table row to quickly find the object on the Workspace

Visual Report
- Toggle between image and data options in a user-friendly interface

Fluids
- Includes a new extensive fluid database NIST REFPROP which supports pure fluids and mixtures

Modules: XTS
- Multi-condition event logic allows an event to be started based on logical conditions using ‘and’, ‘or’, and ‘not’
- New Event Manager allows events to be created, named and then used at many junctions at the same time

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