AFT Arrow™
Add-on Modules

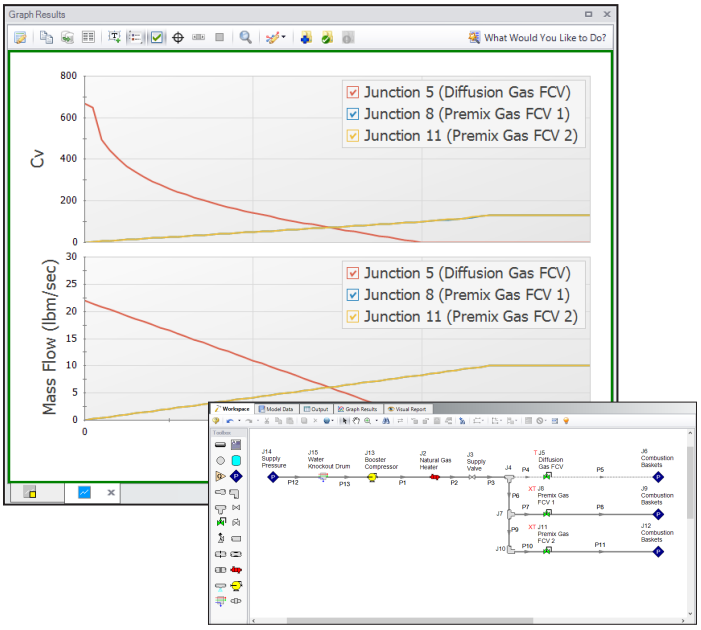
Applied Flow Technology

Extended Time Simulation
Models dynamic system behavior and how critical system parameters vary over time

Automated Network Sizing
Automatically size your network to minimize weight and cost

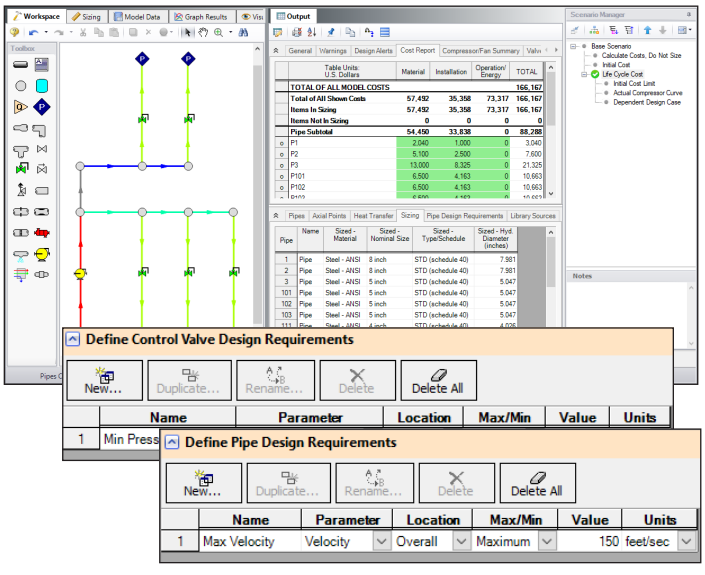
Goal Seek & Control
Identify input parameters that yield desired output values and simulates control functions

Extended Time Simulation
XTS Module



Benefits
- Understand how critical system parameters vary over time
- Automatically change variables for a dynamic simulation of your system

Capabilities
- Text and graphical output clearly displays time varying parameters such as:
  - Gas pressure in tanks
  - Flow and pressure in pipes
  - Compressor operating conditions
  - Valve position and more
- Unique animation feature dynamically displays time varying parameters along selected flow paths



Automated Network Sizing
ANS Module

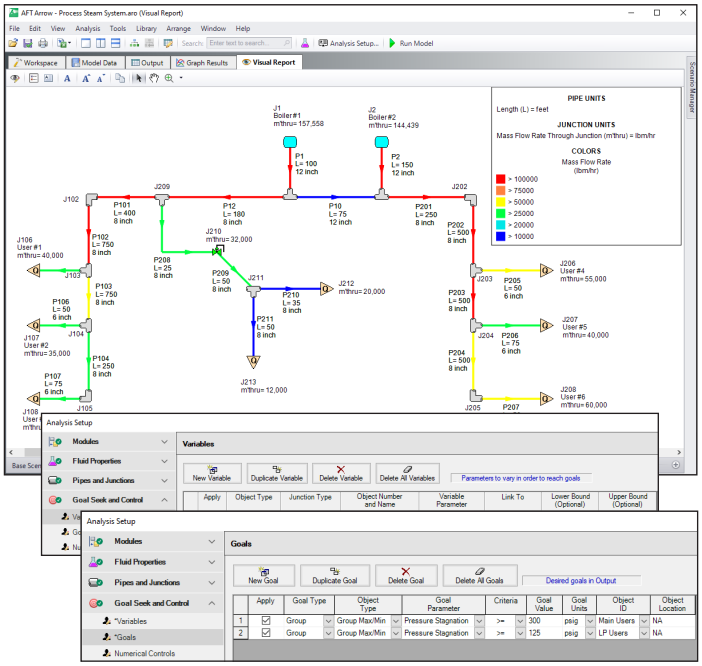
Benefits
- Size your piping network as an integrated system to ensure you find better design combinations
- Manage your iterations, enabling efficient comparison of more design concepts
- Use design cases to size a system while anticipating different operating requirements of future expansions
- Perform economic analysis without opening another program

Capabilities
- Apply design objectives to minimize system costs including pipe weight, duct volume, and monetary cost
- Specify design requirements such as pressures, flowrates, and velocities throughout a system
- Size a system for multiple operating conditions, meeting design requirements using dependent design cases

Dynamic solutions for a fluid world ™

Take Your System Designs to a New Level

The AFT Arrow Goal Seek & Control (GSC) Module frees you from time-consuming manual iteration so you can quickly find the input values necessary to meet the hydraulic behavior you want to simulate. Simply enter your variables and goals, and the module will automate the iterative process for you.



Goal Seek & Control

GSC Module

Benefits

- Evaluate the effects of changing system parameters
- Save time by avoiding manual iterative analyses

Capabilities

- Define multiple variables and goals at multiple locations throughout the system
- Define goals as single point, differential or sum
- Modeling parameters for variables or goals include
  - Compressors/fans – speed, flow, pressure rise
  - Valves - open percent, Cv/K, delta P, flow
  - Control valves - setpoint, open percent
  - Orifice - diameter, area
  - Heat exchangers - heat rate, temperatures, area, U value
  - Spray discharge - area, discharge coefficient, exit pressure
  - Pipes – friction, scaling, insulation thickness

World Class Support

Your software includes one free year of product upgrades and technical support. Additionally, AFT offers a variety of training for all levels of knowledge.

Training Seminars

This classroom style setting teaches you how to be an AFT analysis and simulation expert.

Free Webinars

Hosted & recorded webinars talk about products and solutions-based uses.

Flow Expert Package

Utilize our experts to help you with projects or simply supply expert analysis.

Tips & Tricks

Each month, an AFT engineer gives newsletter readers tips & tricks to keep you up to date.

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