

LEGENDS

Hydraulic Calculations:



Oil and Petrochemical



HVAC



Mining



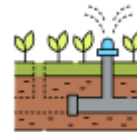
**Water Supply + Storm water +
Sewage Pumping Station Transfer**



Fire



**Residential & Commercial
Building:
Boosting + Circulation + Transfer**



Irrigation



Pulp and Paper

Computer Aided Drawing (CAD):



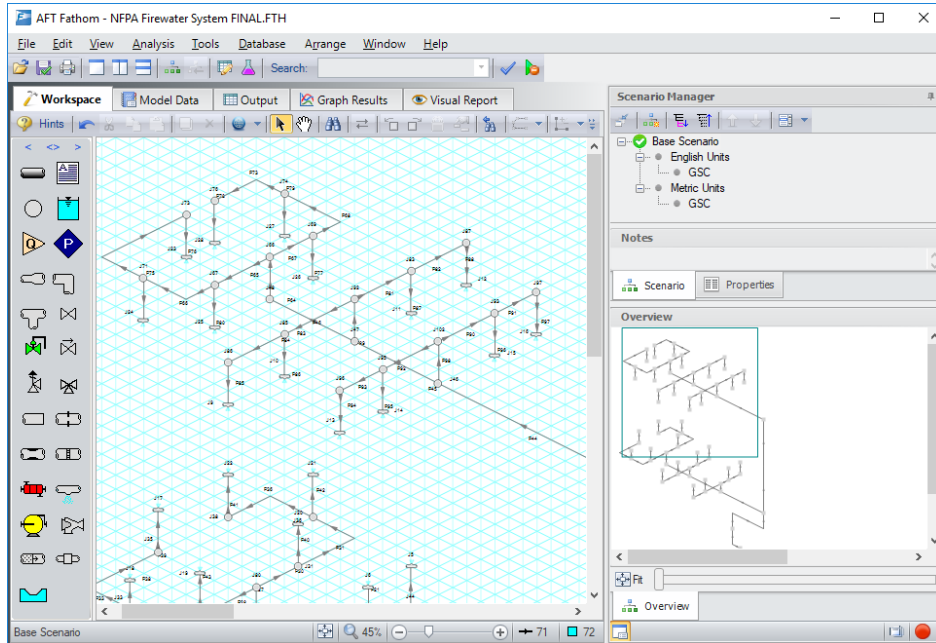
(Mechanical)



(Electrical)

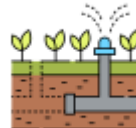


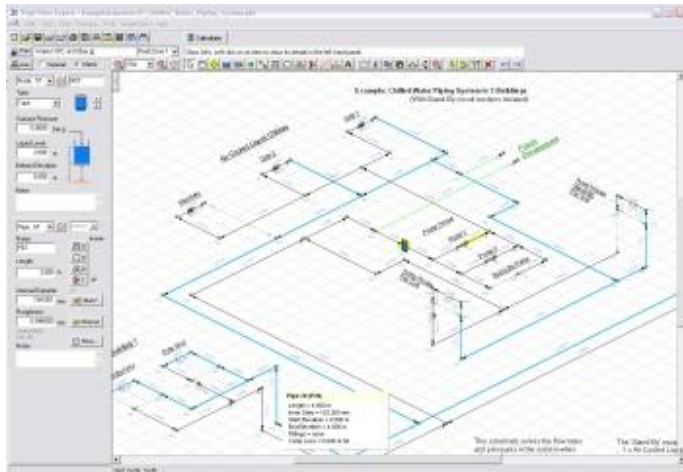
AFT Fathom is a fluid dynamic simulation software for engineers, used to calculate pressure drop and pipe flow distribution in liquid and low-velocity gas piping and ducting systems.



Accurately simulate individual system components and interaction
Tightly integrates equipment characteristics, analysis, and output with your system's schematic representation.
Provides a wide array of features without sacrificing your need for a short learning curve.

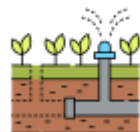
Frees you to focus on your system, not the mechanics of software manipulation
Significantly improves the quality of systems engineering you can achieve, leading to less costly, more efficient and more reliable piping systems.

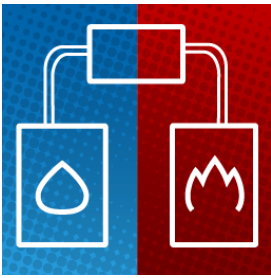




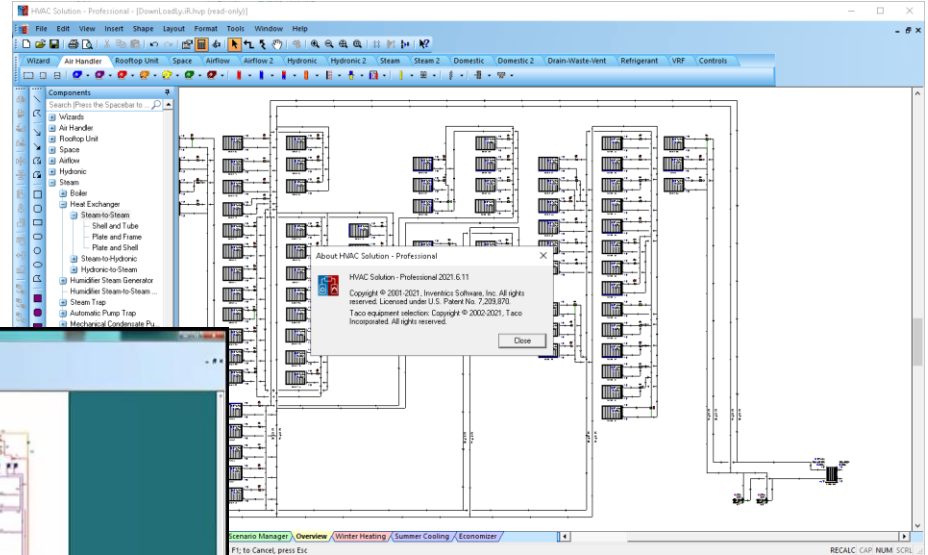
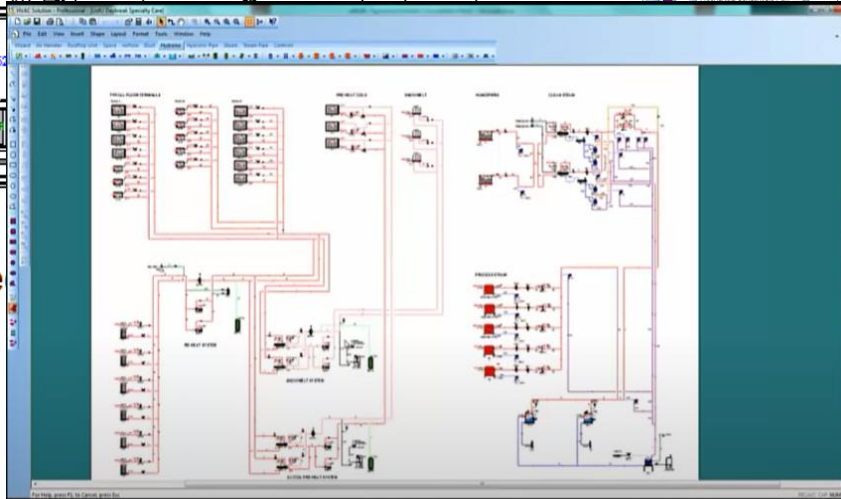
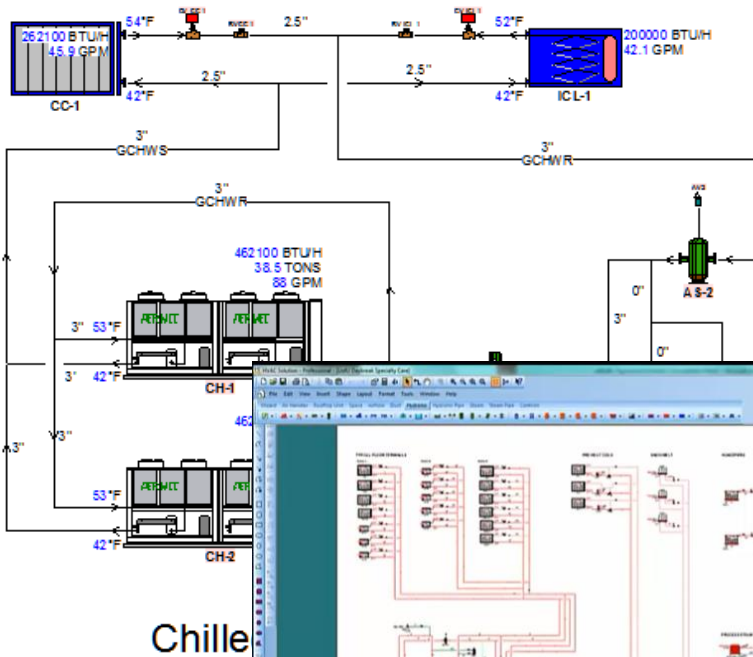
Pipe Flow Expert is a premier software program for piping design and pipe system modeling. It calculates fluid flow in open or closed loop pipe networks with multiple supply & discharge tanks, multiple pumps in series or in parallel, and multiple pipe sizes & fittings. Pipe Flow Expert will calculate the flow rate in each pipe & it will calculate pipe pressure drop throughout your system.

- An Intuitive User Interface that is best-in-class & easy to use
- Isometric 3D drawing capability with automatic symbol rotation
- A Robust Calculation Engine that will solve complex pipe networks
- Pressure Loss calculated using the Darcy-Weisbach formula
- Friction Factors calculated using the Colebrook-White equation
- A Fluid Database with common liquid and gas data
- A Pipe Database with common pipe materials and sizes
- A Fittings Database with common valve and fitting data



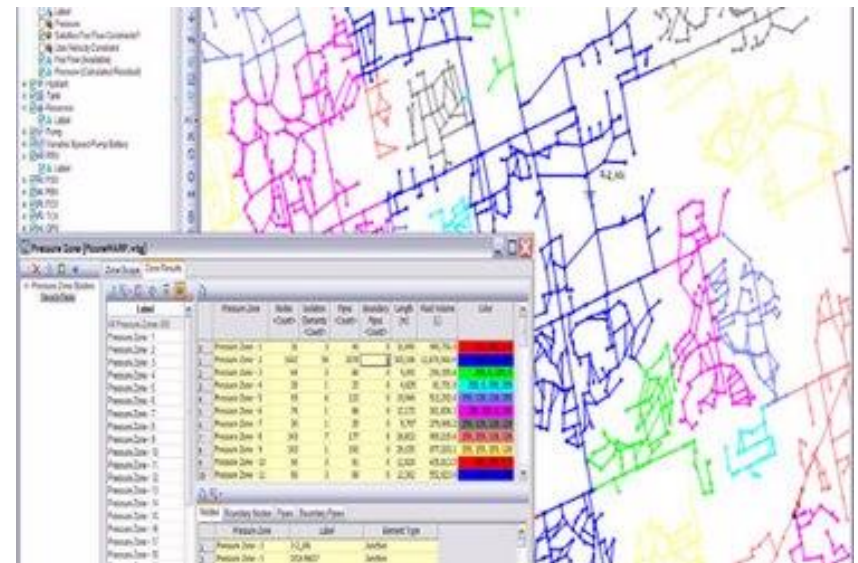
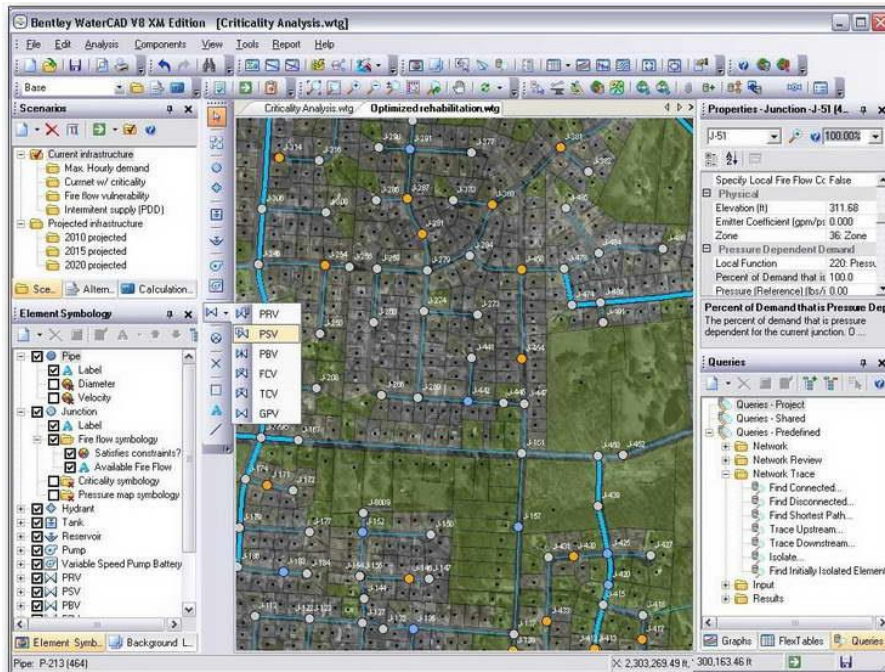


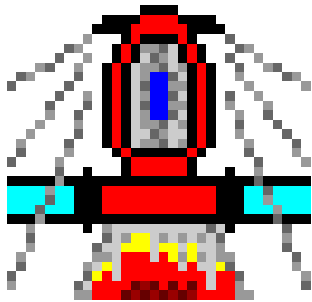
HVAC Solution Professional allows you to drag-and-drop super-intelligent objects to design air systems including both air handlers and rooftops. It also provides you with tools to build hydronic, steam and control systems with unparalleled flexibility.



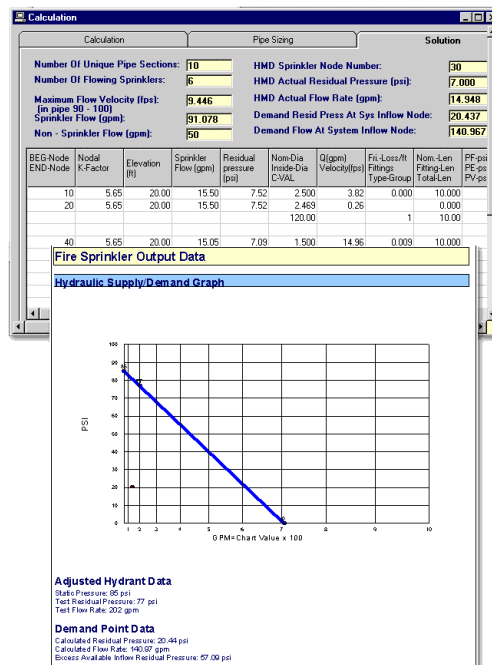


WaterCAD product of Bentley is a software that various utilities and engineering companies in all parts of the world have full. WaterCAD is an easy-to-use software that is reliable, resource-saving, decision-support application for your water infrastructure. You can quickly analyze, design, and optimize your water distribution systems from fire flow and water quality analysis, to energy cost management and pump modeling.





Elite Software Fire program has earned a reputation among professional fire protection designers as a best buy. These designers demand a full set of features, a user-friendly interface, and an affordable price. And Fire delivers all of that. Download the functional demonstration of Fire today and find out why so many consider Fire the best value in fire protection hydraulic calculation software.



Fire - SAMPLE.FIW

Exploing - Sample.fiw

General Project Data

Project Title: EXAMPLE PROJECT
 Designed By: YOUR NAME
 Date: November 20, 1998
 Code Reference: NFPA 13
 Approving Agency: LOCAL JURISDICTION
 Comment: Job number: 92701

General Project Data

In Rack Sprinkler Allow (GPM): 0
 Inside Hose Stream Allow: 50
 Outside Hose Stem Allow (GPM): 0
 Default Pipe Material: 4
 Default K-Factor: 5.65
 Sprinkler Model: G
 Sprinkler Make: GLOBE
 Temperature Rating: 160
 Sprinkler Size: 1
 Labor Rate(\$/hr): 0
 Other Labor Hours (hrs): 0
 Other Material Costs (\$): 0

Hazard Description: Ordinary Group 1
 Min Desired Density (gal/sq.ft.): 0
 Sprinkler System Type: Wet
 Area of Sprinkler Operation (sq. ft.): 600
 Max Area Per Sprinkler (sq. ft.): 130
 Hydrant Test Date: DECEMBER 15, 1992
 Source of Info: LOCAL FIRE MARSHAL
 Hydrant Elevation (ft.): 30
 Hydrant ID: 30
 Hydrant Elevation (ft.): 0
 Test Static Pressure (psi): 85
 Test Residual Pressure (psi): 77
 Test Flow Rate (GPM): 202

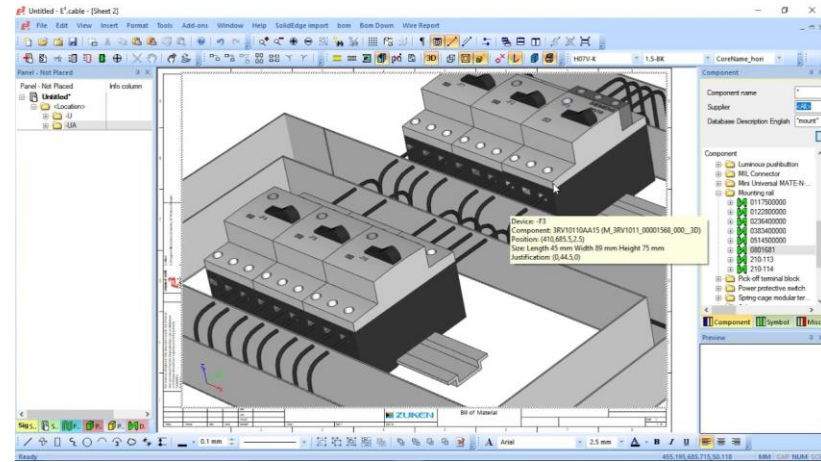
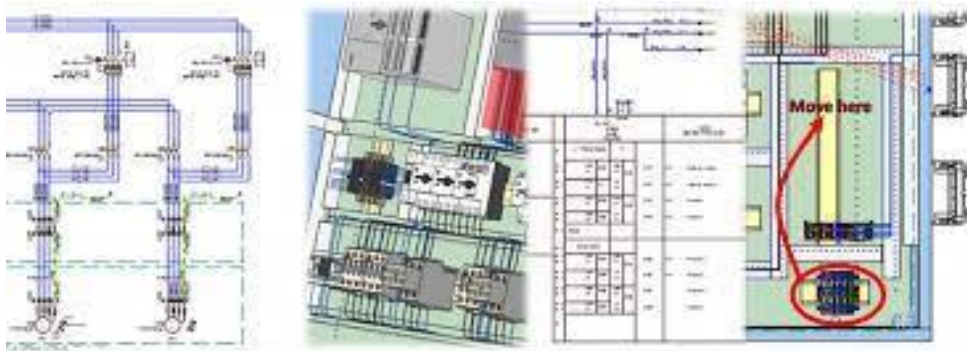
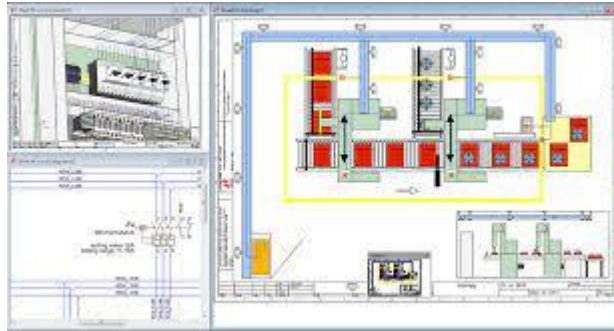
Comment: NONE
 Include this comment on reports

Calculated Demand Pressure (psi): 20.44
 Calculated Demand Flow Rate(gpm): 140.97





E3.series provides a leading single-platform solution to take electrical and fluid control designs from concept to manufacture. E3.series encompasses functional design, detailed schematics (electrical and fluid), wiring and tubing diagrams, through to control cabinet and wire harness layout in 2D and 3D. All applications are driven by an intelligent database that enables electrical, and logical checks that ensure correct connections by design. E3.series connects to leading MCAD design platforms to streamline the creation of digital twins. It transforms product development with electrical data management solutions seamlessly connecting to existing PLM and PDM systems.





AutoCAD Electrical

Access a library of 65,000+ intelligent electrical symbols

Automate numbering of wires and generation of component tags

Generate and update multiple customized reports automatically

